# Former National Guard Armory Bristow, Oklahoma

# **Remediation Final Report**



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



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

# The Oklahoma Department of Environmental Quality (DEQ) is pleased to present the City of Bristow with the Final Remediation Report for the former Bristow 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 Bristow 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 floor tile, soffit paneling,
   and pipe insulation and fittings
- Asbestos Abatement, including: Removal of all asbestos-containing floor tile, soffit paneling, and pipe insulation and fittings

# TARGETED BROWNFIELD ASSESSMENT

On November 12, 2013, DEQ provided a Phase I Targeted Brownfield Assessment to the City of Bristow. A copy of this report is available at http://www.deq.state.ok.us/lpdnew/ scapIndex.htm

### **LEAD REMEDIATION**

DEQ and its contractors completed the following activities:

- Lead-based paint (LBP) and lead dust inspection
- LBP abatement, including:
   Scraping and sealing window headers and lead pipes
- Lead dust abatement, including:
   HEPA vacuuming and wet washing of floors in the building
- Proper disposal of associated waste





# **DEEDS AND LEGAL DOCUMENTS**

JANELL DIEHL, COUNTY CLERK STATE OF OKLAHOMA COUNTY OF CREEK This Instrument Was Filed For Record ON

11 12758

QUITCLAIM DEED

NOV 3 - 2011

KNOW ALL MEN BY THESE PRESENTS:

At 230 Oclock P M AND RECORDED IN BOOK 759 PAGE 668-70

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

A piece or parcel of land lying in the SW ¼-SW ¼ Sec. 30-T16N-R9E, described by metes and bounds as follows: Beginning at a point on the East line of and 843.9 ft. North of the SE corner of the SW ¼-SW ¼ (known as lot 4) Sec. 30 T16N-R9E; thence in a Westerly direction along the said Cemetery Fence a distance of 250 ft., thence Northerly a distance of 250 ft., thence Easterly a distance of 250 ft., thence Southerly along the East line of said lot 4, a distance of 250 ft. to the point of beginning, containing 1.435 Acres more or less,

together with the improvements thereon and appurtenances thereunto belonging.

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

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

Signed and delivered this 20 day of 2000 2011

STATE OF OKLAHOMA

By: Major General Myles L. Deering,

Adjutant Caneral of the State of Oklahoma

1000

#### **DEED NOTICE**

#### NOTICE OF REMEDIATION FORMER BRISTOW ARMORY BRISTOW, OKLAHOMA

AFFECTED PROPERTY: The Affected Property is the former Bristow Armory located at 700 West 5<sup>th</sup> Avenue, City of Bristow, Creek County Oklahoma, 74010.

The legal description is as follows:

A piece or parcel of land lying in the SW¼ -SW¼ Sec. 30-T16N-R9E, described by metes and bounds as follows: Beginning at a point on the East line of and 843.9 ft. North of the SE corner of the SW¼-SW¼ (known as lot 4) Sec. 30 T16N-R9E; thence in a Westerly direction along the said Cemetery Fence at a distance of 250 ft., thence Northerly a distance of 250 ft., thence Easterly a distance of 250 ft., thence Southerly along the East line of said lot 4, a distance of 250 ft. to the point of beginning, containing 1.435 Acres more or less.

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

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

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

REASON FOR NOTICE: The above described 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 March 10<sup>th</sup> and 16<sup>th</sup>, 2012, 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 November 18, 2014.

I-2015-000672 Bk 0957 Pg 226 01/15/2015 3:09 pmPg 226-228 Fee: \$ 17.00 Doc: \$ 0.00 Jennifer Mortazavi - Creek County Clerk State of Oklahoma For more detailed information please refer to Former National Guard Armory Bristow, Oklahoma Remediation Final Report. To obtain a copy of the report, contact:

Oklahoma Department of Environmental Quality Central Records

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

Physical Address 707 N Robinson Oklahoma City, OK 73102

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

#### 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

1-7-15

Date

I-2015-000672 Bk 0957 Pg 227 01/15/2015 3:09 pmPg 226-228 Fee: \$ 17.00 Doc: \$ 0.00 Jennifer Mortazavi - Creek County Clerk State of Oklahorna

#### ACKNOWLEDGMENT

STATE OF OKLAHOMA COUNTY OF OKLAHOMA

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

My Commission expires:

anuary 17, 2016

Jenesa Fritherson Notary Public



i-2015-000672 Bk 0957 Pg 228 01/15/2015 3:09 pmPg 226-228 Fee: \$ 17.00 Doc: \$ 0.00 Jennifer Mortazavi - Creek County Clerk State of Oklehoma

# MAINTENANCE PLAN

#### MAINTENANCE PLAN FORMER BRISTOW ARMORY BRISTOW, OKLAHOMA

The Armory located at 700 West 5<sup>th</sup> Avenue, Bristow, 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 March 10<sup>th</sup> and 16<sup>th</sup>, 2012, 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 November 18<sup>th</sup>, 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. All 26 window headers above drill floor (Room 18) windows and the metal pipe in Room 6 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.
- 2. The tile walls in Room 6 and Room 7 and beige tile window sills in Rooms 2, 3, 4, 6, 7, and 17 contain lead. Tile walls and sills were left in place due to their good condition, but will need to be removed and replaced if the tile shows signs of deterioration or damage.
- 3. The transite pipes for the ceiling-mounted space heaters in Rooms 15, 16, 17, and 18 contain non-friable asbestos. Transite pipes were left in-place due to their good condition, but will need to be removed and replaced if the transite shows signs of deterioration or damage.

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** 

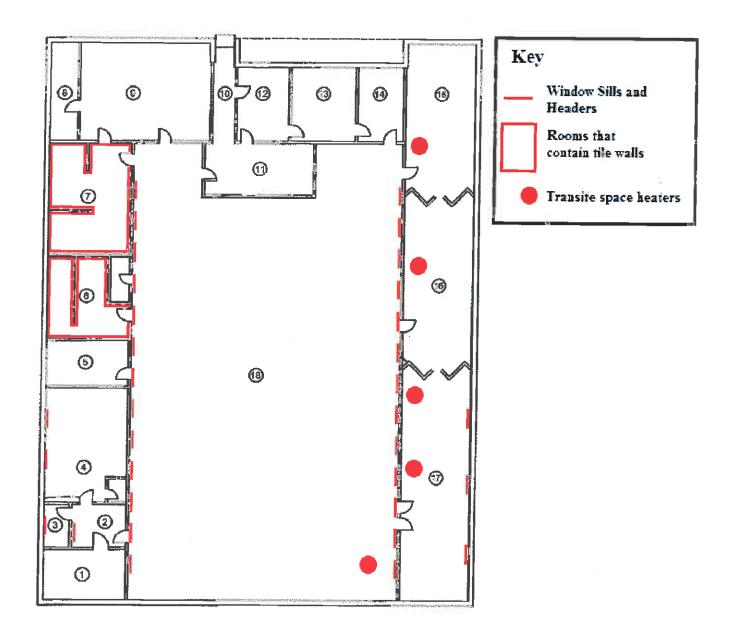
Environmental Programs Specialist DEQ Land Protection Division

Site Cleanup Assistance Program

## **ATTACHMENT 1**

# Floor Plan Map

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



## **ATTACHMENT 2**

# **DEQ Approved Sealants and Encapsulants List**

# Acrylic Sealant approved by DEQ

## KM-669 Acrylic

# Lead-Based Paint Encapsulants approved by DEQ

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

# **INSPECTION REPORTS**

# QUANTITATIVE FACILITY ASBESTOS SURVEY

NATIONAL GUARD ARMORY 700 WEST 5TH AVENUE **BRISTOW, OKLAHOMA 74010** 

GMR Project Number 2012017 March 10, 2012



LAND PROTECTION DIVISION

Oklahoma Department of Environmental Quality Land Protection Division DEPARTMENT OF ENVIRONMENTAL QUALITY P. O. Box 1677

Oklahoma City, OK 73101-1677 Attention: Mr. Dustin Davidson

GMR & Associates, Inc.

ENGINEERS, PLANNERS, ENVIRONMENTAL SPECIALISTS, HYDROGEOLOGISTS

2520 West I-44 Service Road, Suite 200 P.O. Box 57827 Oklahoma City, OK 73157-7827

Telephone: 405-528-7017 Fax: 405-528-3346

Prepared by:

Howard Burch

ODOL AHERA Inspector License OK159522

Reviewed by:

Welsh. Feis

James M. Reis Vice President Project Manager

#### **TABLE OF CONTENTS**

1.0 EXECU	TIVE SUMMARY	1
2.0 INTROI	DUCTION	1
3.0 BUILDI	NG DESCRIPTION	1
4.0 FINDIN	G SUMMARY OF ASBESTOS CONTAINING MATERIALS	2
5.1 SURV	ING PROCEDURES	4
6.1 RECC 6.2 RECC	IMENDATIONSDMMENDED ACTIONS FOR PLANNED RENOVATIONSDMMENDED ACTIONS FOR PLANNED DEMOLITIONDMMENDED ACTIONS FOR ASBESTOS LEFT IN-PLACE	. 4 . 4
7.0 BUDGET	TARY ABATEMENT COST ESTIMATE	. 5
Tables Table 1 Table 2	Summary of Asbestos Containing Materials  Bulk Samples and Analytical Results	
Appendices Appendix A	Laboratory Results and Chain of Custody Field Sheets	
Appendix B	Inspector and Management Planner Licenses	
Appendix C	Site Layout with Sample and Asbestos Locations	
Appendix D	Photo Record	

#### QUANTITATIVE FACILITY ASBESTOS SURVEY BRISTOW NATIONAL GUARD ARMORY 700 WEST 5<sup>TH</sup> AVENUE BRISTOW, OKLAHOMA

#### 1.0 EXECUTIVE SUMMARY

In February, 2012 GMR & Associates, Inc. (GMR) performed a survey for asbestos containing materials (ACM) in the National Guard Armory at 700 West 5<sup>th</sup> Avenue in Bristow, Oklahoma.

The objective of the survey was to assess the presence and quantities of asbestos containing materials. Bulk samples of suspect (ACM) were collected during the survey and submitted for laboratory analysis for asbestos content. During the survey, a total of 38 samples were collected from 20 different homogeneous areas.

Laboratory results indicate the sub-layer of gray floor tile located in Rooms 12, 13 and 14 and the transite soffit paneling under the entrance overhang contain non-friable asbestos.

Laboratory results indicate the thermal pipe insulation and fittings for the water supply line contain friable asbestos.

Transite (asbestos) vent piping on ceiling mounted space heaters were observed in Rooms 15, 16, 17 and 18. Samples from these locations could not be collected without jeopardizing the integrity of the vent pipe.

#### 2.0 INTRODUCTION

On February 23, 2012, GMR & Associates, Inc. (GMR) performed a survey for ACM in the National Guard Armory located at 700 West 5<sup>th</sup> Avenue in Bristow, Oklahoma.

The objective of the survey was to assess the presence and quantities of ACM. Bulk samples of suspect ACM were collected during the survey and submitted for laboratory analysis for asbestos content.

#### 3.0 BUILDING DESCRIPTION

Constructed in 1954, the Bristow Armory building has a total area of 11,216 square feet and is comprised of one floor constructed over a concrete slab. The building consists of a large central garage/staging area, with offices, bathrooms and workrooms located around the garage on the north, east and west.



### 4.0 FINDING SUMMARY OF ASBESTOS CONTAINING MATERIALS

Laboratory results indicate the sub-layer of gray floor tile located in Rooms 12, 13 and 14 and the transite soffit paneling under the entrance overhang contain non-friable asbestos.

Laboratory results indicate the thermal pipe insulation and fittings for the water supply line contain friable asbestos.

Transite vent piping on ceiling mounted space heaters were observed in Rooms 15, 16, 17 and 18. Samples from these locations could not be collected without jeopardizing the integrity of the vent pipe.

All other materials sampled did not contain asbestos. The asbestos sampling locations are shown in Appendix C, Figures 1-3.

Table 1
Summary of Asbestos Containing Building Materials

Material Category	Description Description	Quantities	General Location
Friable	Thermal Pipe Insulation – Water Pipe (BA-17A thru BA-17E)	400 Lineal Feet (LF)	Exposed in Rooms 6, 7, 15, 17, 18 and closet, east of Rm. 6.
Friable	Thermal Pipe Fittings – Water Pipe (BA-18A thru BA-18E)	30 Fittings (Observed)	Exposed in Rooms 6, 7, 15, 17, 18 and closet, east of Rm. 6.
Category 1 Non-Friable	Gray Floor Tile – Sub-floor (BA-04A, a)	500 Square Feet (SF)	Rooms 12, 13 and 14
Category II Non-Friable	Transite Soffits (BA-20A)	250 Square Feet	Entrance Overhang
Category II Non-Friable	Transite Vent Pipe and Fittings (Not-Sampled)	25 Lineal Feet	Ceiling Mounted Space Heaters - Room 15, 16, 17 and 18

Table 2

Sample ID	Description	Approx. Amount	Asbestos Type & Percent	
BA-01A	Tan Floor Tile	N/A	None Detected	
BA-02A	Yellow Mastic	N/A	None Detected	
BA-03A	Tan Floor Tile	N/A	None Detected	
BA-04A	Mastic	N/A	None Detected	
BA-04A (Sub-	Gray Floor Tile	500 SF	8% Chrysotile	
Layer)				
BA-05A	2x4 White Ceiling Tile (Room 11)	N/A	None Detected	_
BA-06A	2x4 White Ceiling Tile (Room 10)	N/A	None Detected	
BA-07A	Tan Wall Panels	N/A	None Detected	
BA-07B	Tan Wall Panels	N/A	None Detected	
BA-07C	Tan Wall Panels	N/A	None Detected	$\dashv$
BA-07D	Tan Wall Panels	N/A	None Detected	$\dashv$
BA-07E	Tan Wall Panels	N/A	None Detected	$\dashv$

Table 2 (continued)
Bulk Samples and Analytical Results

Sample Description Approx. **Asbestos Type & Percent** ID Amount **BA-08A** White Sheetrock N/A None Detected BA-08B White Texture N/A None Detected White Sheetrock N/A None Detected BA-08C White Texture None Detected N/A White Sheetrock N/A None Detected BA-09A Gray/Black Window Glazing N/A None Detected BA-10A Gray/Black Window Clazing N/A None Detected BA-11A White Sheetrock N/A None Detected BA-11B White Sheetrock N/A None Detected BA-11C White Sheetrock N/A None Detected BA-12A White Joint Compound N/A None Detected Cream Tape N/A None Detected BA-12B White Joint Compound N/A None Detected Cream Tape N/A None Detected BA-12C White Joint Compound N/A None Detected Cream Tape N/A None Detected **BA-13A** White Window Glazing N/A None Detected **BA-14A** Gray Insulation - Vault Door N/A None Detected BA-15A Cream Insulation – Folding Doors N/A None Detected BA-16A Silver/Black Gasket - Folding N/A None Detected Doors **BA-17A** Black/Beige Pipe Wrap 400 LF 45% Chrysotile Brown Pipe Wrap N/A None Detected Black/Beige Pipe Wrap BA-17B 400 LF 45% Chrysotile Brown Pipe Wrap N/A None Detected BA-17C Black/Beige Pipe Wrap 400 LF 45% Chrysotile Brown Pipe Wrap N/A None Detected Black/Beige Pipe Wrap BA-17D 400 LF 40% Chrysotile Brown Pipe Wrap N/A None Detected BA-17E Brown/White Pipe Wrap 400 LF 45% Chrysotile White Pipe Wrap None Detected N/A **BA-18A** Cream Pipe Wrap 30 EA 5% Chrysotile **Light Gray Fitting** 30 EA 65% Chrysotile BA-18B Beige Pipe Wrap 30 EA 35% Chrysotile Light Gray Fitting 30 EA 60% Chrysotile BA-18C **Light Gray Fitting** 30 EA 70% Chrysotile BA-18D **Light Gray Fitting** 30 EA 65% Chrysotile BA-18E Light Gray Fitting 30 EA 70% Chrysotile BA-19A White Roofing N/A None Detected Black Tar N/A None Detected Gray Transite Soffits BA-20A 250 SF 20% Chrysotile

SF = Square Feet; LF = Lineal Feet; EA = Each

#### 5.0 SAMPLING PROCEDURES

#### 5.1 SURVEY PROCEDURES

The asbestos survey involved visual Inspection and Sampling, Laboratory Analysis, and Quantity Assessment.

During the physical survey, sample collection data sheets were completed using the unique identification numbers previously described as a reference for the entry of more detailed information regarding the item being sampled. The individual sample numbers were recorded along with the item description, location within the area and condition of the material being sampled. Each sample was deposited in a sealable plastic bag or screw-top plastic collection container. The container was then marked with the sample identifier and recorded on the data sheet. All Inspectors are licensed as an AHERA Inspector by the State of Oklahoma. The completed survey forms and samples for each area were then taken to Quantem Laboratory, an accredited laboratory in Oklahoma City and the survey data was entered into a computer system for processing.

#### 5.2 ANALYTICAL PROCEDURES

Bulk samples collected by GMR were analyzed by Quantem Laboratory in Oklahoma City, Oklahoma. Bulk samples were analyzed by Polarized Light Microscopy (PLM). All samples that were submitted were analyzed. Quantem laboratory is accredited through the American Industrial Hygiene Association (AIHA) or National Voluntary Laboratory Accreditation Program (NVLAP).

#### 6.0 RECOMMENDATIONS

#### 6.1 RECOMMENDED ACTIONS FOR PLANNED RENOVATIONS

Prepare specifications and Project Design for abatement of friable asbestos material and specifications for abatement of non-friable materials that would be disturbed during renovation activities.

#### 6.2 RECOMMENDED ACTIONS FOR PLANNED DEMOLITION

Prepare specifications and Project Design for abatement of all friable asbestos materials and Transite soffits and vent piping. Remaining non-friable material may be left in place and disposed of as demolition debris. A licensed asbestos abatement contractor is not required for floor and mastic removal (Oklahoma Asbestos Control Act, page 36, 380:50-21-1); however personnel doing the work must follow work practices and have the training required in OSHA 29 CFR 1926.1101.

#### 6.3 RECOMMENDED ACTIONS FOR ASBESTOS LEFT IN-PLACE

Prepare and implement an Operations and Management (O&M) Plan to manage the asbestos in place. The O&M plan shall meet the requirements established in the Oklahoma Control Act, page 26, 380:50-14-1.

#### 7.0 BUDGETARY ABATEMENT COST ESTIMATE

Thermal pipe insulations and fittings: \$21,500.00
Transite Soffits: \$1,800.00
Transite heater vents and fittings: \$300.00
Gray Floor Tile: \$1,250.00

# Appendix A

**Laboratory Results and Chain of Custody Field Sheets** 



#### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 204756

Account Number:

B216

Date Received:

02/23/2012

Received By:

Leigh Armstrong

Date Analyzed: Analyzed By: Methodology:

02/29/2012

Stacey Holder

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

700 W 5th, Bristow, OK Project Location:

Project Number: N/A

Non-Asbestos Non Fibrous Color / Client QuanTEM Description Asbestos (%) Fiber (%) Sample ID Composition Sample ID Asbestos Not Present Cellulose <1 Vinyl 001 Tan **BA-01A** Homogeneous CaCO3 Floor Tile Cellulose Glue Yellow Asbestos Not Present <1 BA-02A Homogeneous 002 Mastic Vinyl Asbestos Not Present Cellulose <1 Tan 003 **BA-03A** Homogeneous CaCO3 Floor Tile 004 BA-04A Layered Yellow Asbestos Not Present Cellulose Glue Mastic Gray Asbestos Present Cellulose Vinyl 004a Layered CaCO3 Chrysotile 8 Floor Tile White Asbestos Not Present Cellulose <1 Binder 005 BA-05A Homogeneous Ceiling Tile <1 Binder White Asbestos Not Present Cellulose 006 BA-06A Homogeneous Ceiling Tile

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



#### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 204756

Account Number:

B216

Date Received: Received By:

02/23/2012

Date Analyzed:

Leigh Armstrong

Analyzed By:

02/29/2012

Stacey Holder

Methodology:

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location:

700 W 5th, Bristow, OK

Project Number: N/A

Non-Asbestos Non Fibrous Color / OuanTEM Client Fiber (%) Sample ID Composition Description Asbestos (%) Sample ID Tan Asbestos Not Present Cellulose 20 Gypsum 007 BA-07A Homogeneous Panel Cellulose Gypsum 800 BA-07B Homogeneous Tan Asbestos Not Present Panel BA-07C Tan Asbestos Not Present Cellulose Gypsum 009 Homogeneous Panel Tan Asbestos Not Present Cellulose 15 Gypsum 010 BA-07D Homogeneous Panel Asbestos Not Present Cellulose 20 Gypsum BA-07E Tan 011 Homogeneous Panel -Homogeneous White Asbestos Not Present Cellulose Gypsum 012 BA-08A Sheetrock White Asbestos Not Present Cellulose CaCO3 013 Layered BA-08B Paint Texture

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



#### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 204756

Account Number:

B216

Date Received:

02/23/2012

Received By: Date Analyzed:

Analyzed By: Methodology: 02/29/2012

Stacey Holder

EPA/600/R-93/116

Leigh Armstrong

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
013a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 1	5 Gypsum
014	BA-08C	Layered	White Texture	Asbestos Not Present	Cellulose <	1 CaCO3 Paint
014a		Layered	White Sheetrock	Asbestos Not Present	Cellulose 1	5 Gypsum
015	BA-09A	Homogeneous	Gray/Black Window Glazing	Asbestos Not Present	Cellulose <	1 CaCO3 Binder
016	BA-10A	Homogeneous	Gray/Black Window Glazing	Asbestos Not Present	Cellulose 1	5 CaCO3 Binder
017	BA-11A	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 1:	5 Gypsum
018	ВА-11В	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 20	) Gypsum

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



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Date Analyzed: Analyzed By: Methodology:

02/29/2012

Stacey Holder

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
019	BA-11C	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose	20	Gypsum.
020	BA-12A	Layered	White Joint Compound	Asbestos Not Present	Cellulose	2	CaCO3
020a		Layered	Cream Tape	Asbestos Not Present	Cellulose	65	Binder
021	BA-12B	Layered	White Joint Compound	Asbestos Not Present	Cellulose	<1	CaCO3
021a		Layered	Cream Tape	Asbestos Not Present	Cellulose	60	Binder
022	BA-12C	Layered	White Joint Compound	Asbestos Not Present	Cellulose	2	CaCO3
022a	18	Layered	Cream Tape	Asbestos Not Present	Cellulose	55	Binder

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



#### Polarized Light Microscopy Asbestos Analysis Report

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02/23/2012

Date Analyzed:

Leigh Armstrong

Methodology:

02/29/2012

Analyzed By:

Stacey Holder

EPA/600/R-93/116

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
023	BA-13A	Homogeneous	White Window Glazing	Asbestos Not Present	Cellulose	<1	Binder
024	BA-14A	Homogeneous	Gray Insulation	Asbestos Not Present	Cellulose	<1	CaCO3 Vermiculite
025	BA-15A	Homogeneous	Cream Insulation	Asbestos Not Present	Cellulose	65	Binder
026	BA-16A	Homogeneous	Silver/Black Gasket	Asbestos Not Present	Cellulose	8	Binder
027	BA-17A	Layered	Black/Beige Pipe Wrap	Asbestos Present Chrysotile . 45	Cellulose	10	Binder
027a		Layered	Brown Pipe Wrap	Asbestos Not Present	Cellulose	25	Binder
028	BA-17B	Layered	Black/Beige Pipe Wrap	Asbestos Present Chrysotile 45	Cellulose	8	Binder

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



#### Polarized Light Microscopy Asbestos Analysis Report

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B216

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Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

1	QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
1	028a		Layered	Brown Pipe Wrap	Asbestos Not Present	Cellulose 15	Binder
	029	BA-17C	Layered	Black/Beige Pipe Wrap	Asbestos Present Chrysotile 45	Cellulose 5	Binder
J	029a		Layered	Brown Pipe Wrap	Asbestos Not Present	Cellulose 60	Binder
	030	BA-17D	Layered	Black/Beige Pipe Wrap	Asbestos Present Chrysotile 40	Cellulose 10	Binder
]	030a		Layered	Brown Pipe Wrap	Asbestos Not Present	Cellulose 60	Binder
	031	BA-17E	Layered	Brown/White Pipe Wrap	Asbestos Present Chrysotile 45	Cellulose 10	Binder
	031a		Layered	White Pipe Wrap	Asbestos Not Present	Cellulose 60	Bin <b>der</b>

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



#### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 204756

Account Number:

B216

Date Received:

02/23/2012

Received By: Date Analyzed: Leigh Armstrong 02/29/2012

Analyzed By: Methodology:

Stacey Holder

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

1	QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)		N	ion-Asbestos Fiber (%)		Non Fibrous
]	032	BA-18A	Layered	Cream Pipe Wrap	Asbestos Present Chrysotile	5		Cellulose	65	Binder
	032 <u>a</u>		Layered	Light Gray Pipe Fitting	Asbestos Present Chrysotile	65		NA		Binder
	033	BA-18B	Layered	Beige Pipe Wrap	Asbestos Present Chrysotile	35		Cellulose	25	Binder
	033a		Layered	Light Gray Pipe Fitting	Asbestos Present Chrysotile	60		NA		Binder
1	034	BA-18C	Homogeneous	Light Gray Pipe Fitting	Asbestos Present Chrysotile	70		Cellulose	2	Binder
	035	BA-18D	Homogeneous	Light Gray Pipe Fitting	Asbestos Present Chrysotile	65		Cellulose	2	Binder
}	036	BA-18E	Homogeneous	Brown/White Pipe Fitting	Asbestos Present Chrysotile	70		Cellulose	2	Binder

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



#### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 204756

Account Number:

B216

Date Received:

02/23/2012

Received By: Date Analyzed: Leigh Armstrong

Analyzed By:

02/29/2012

Stacey Holder

Methodology:

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
037	BA-19A	Layered	White Roofing	Asbestos Not Present	Synthetic 75	Binder
037a		Layered	Black Tar	Asbestos Not Present	Cellulose <1	Tar
038	BA-20A	Homogeneous	Gray Transite	Asbestos Present Chrysotile 20	NA	Binder

3/1/2012

Date of Report

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

LABORATORIES WWW.QuanTEM.com

# **ASBESTOS CHAIN OF CUSTODY**

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

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

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Page	

For Lab Use Only
Lab No. 20176

Report Results (₭ one box) DATE & TIME QuanTEM Website Other 0,4 Eristers RECEIVED BY Juno. Project Information 574 700 65 Bristow Project Location: Project Name: 22-12 E-mail: Manaja 15 d gar 11 nc. 4 Booket 10: Phone: 915/645-4510 Date. 7-23-12 1500 DATE & TIME Cell Phone Contact Information Wile MANONS 119:019 RELINQUISHED BY Name: True 1 Sampled By: Company: Account #: Contact

REQUESTED SERVICES (Please I the Appropriate Boxes)

TURNAROUND TIME Same Day 24 - Hour 3-Day X 5-Day Rush Comments / Notes Dust- Quantitative [fibers/sq.cm]- ASTM D5755 Bulk- Presence / Absence EPA600/R-93/116 Bulk- Quantitative [weight%]- Chatfield Dust- Presence / Absence Volume / Area (as applicable) 715個 5991 240 3100 Other Cayer 12/201 Rese Waste Water- EPA 600/4-83-043 Jost Tile 100 Drinking Water- EPA 100.2 Description 1-10017.10 Air- NIOSH 7402 3.7561.C Air-ISO 10312 0036 1.425XV Air- AHERA Leiling 1 " En Vermiculite Attic Insulation (EPA 600/R-04/004) 1clina 12/100 PCM Color 1181 100 がずけん 1.4.70 NIOSH 7400 Other ☑ To Be Analyzed Š Bulk Analysis (EPA 600/R-93/116) (10 Characters Max) Gravimetric Preparation 1500 BH-049 220-BA-054 450-98 Sample ID 1720 34.07B BA-078 RA COLA 1000 Point Count 400 Point Count Particle ID B.F. 34 が 8

SATURDAY SAMPLE DELIVERY - CALL TC SCHEDULE 🏮 Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 🍨 Mark Package "Hold for Saturday Pickup"



# ASBESTOS CHAIN OF CUSTODY

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

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Page 2 of 3

For Lab Use Only
Lab No. 204756.
Accept Reject

Profe	Project Information	4			
Company:	any: GWP	NP		Project Name: Briston Bino Ginor	o w the Distor of
No	Sample ID (10 Characters Max)	☑ To Be Analyzed	Color	Description (as applicable)	Comments / Notes
=	84-075	D	120	Well Board . To	
12	BA-0-6D	7	Marke	100 11	
13	80-05P	3	11	65	
14	PH-046C	[3]	"	// 1/2	
15	184 - C94		621 Best	indow (dear) by -11 mon	0000
16	84-10A	3	10)		
17	411.40	7	4.40	Dry wail	J
18	64-11	Ž	77		
19	130-11	١	13	11 11	
20	1201-120	J	10	Tage Toint Composing	Slevel
21	821-128	À	26		(de)
22	By. 126		11		
23	SA-18A		7.5	Lower Bindew Blazing	
24	S.9. 14.19	٠.	61.2	100 Tines	
25	84-159	Ì	With	Folding Panel Door	
56	B.M 16 M	1	18.16		
27	131-124	\$	Ben lubbe	1241 JUMO 25014 1	24123
28	BA-128	वे	150	11 17 12	
29	84-136	Ò	56	11 11 11 11	A LONG A LONG TO THE PARTY OF T
30	84175	N	J 16	10 10 10 10	



# ASBESTOS CHAIN OF CUSTODY

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

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Page 3 of S

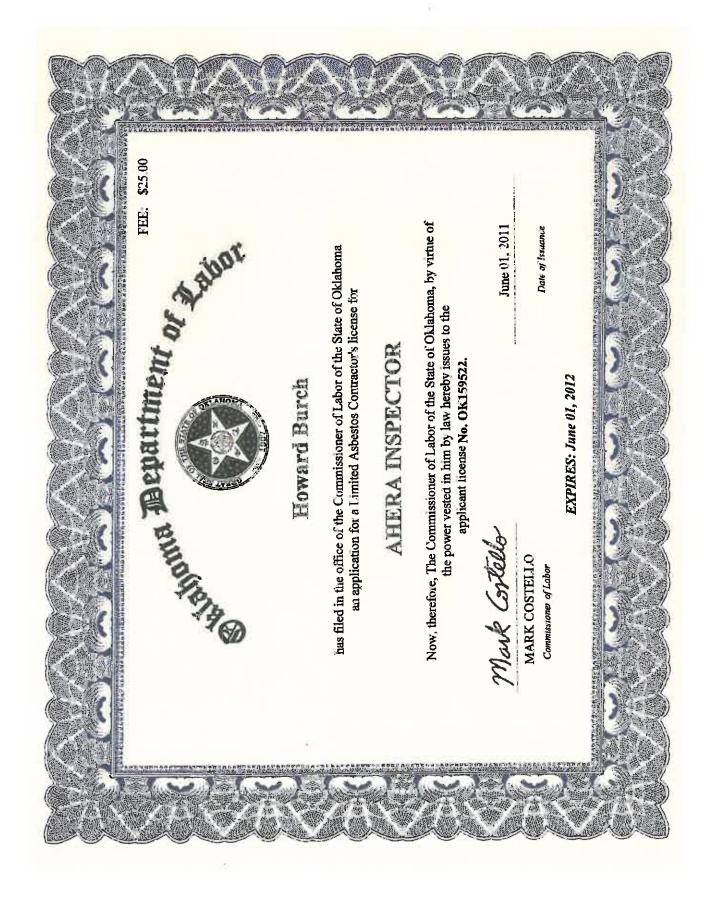
For Lab Use Only
Lab No. 26-1756

Accept Reject

Proje	Project Information				
Company:	nany: GIME	ik		Project Name: Brighow Arms if Project Location: 700 is 5th Rich	0
No.		☑ To Be Analyzed	Color	Volume / Area (as applicable)	
31	84-175	白	Bra laiste	water orde Top allows	
32	84-148	7	13	Liebe Tile Tille The	
E E	BR-198		77	411.00	
34	24 - 16C		(2)	11 11 11 11	
35	194-190	Ì	71	11 11 11 11	
36	184-18E	Ò	12 1	11 11 11 11	
37	84-19A	Ì	White	Looking Falsic 1257 P. 12 mon	
38	Est - 20 A	1	(2)(2)	1/2 Sottist - 11 WA 21042	
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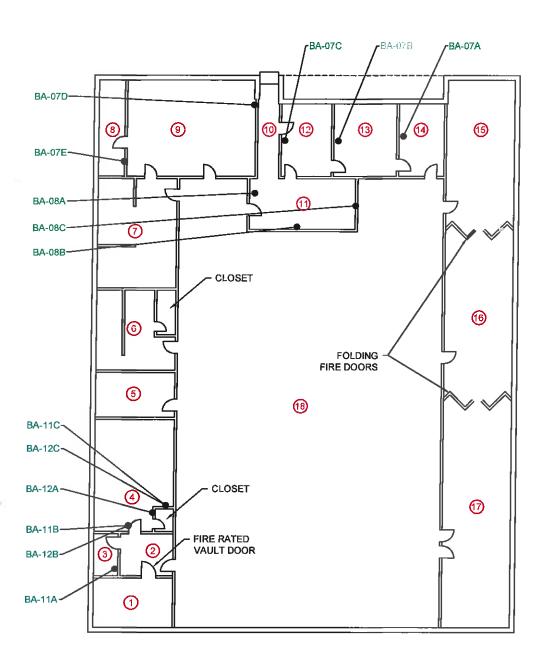
# Appendix B

Certifications



# Appendix C

Site Layout with Sample and Asbestos Locations





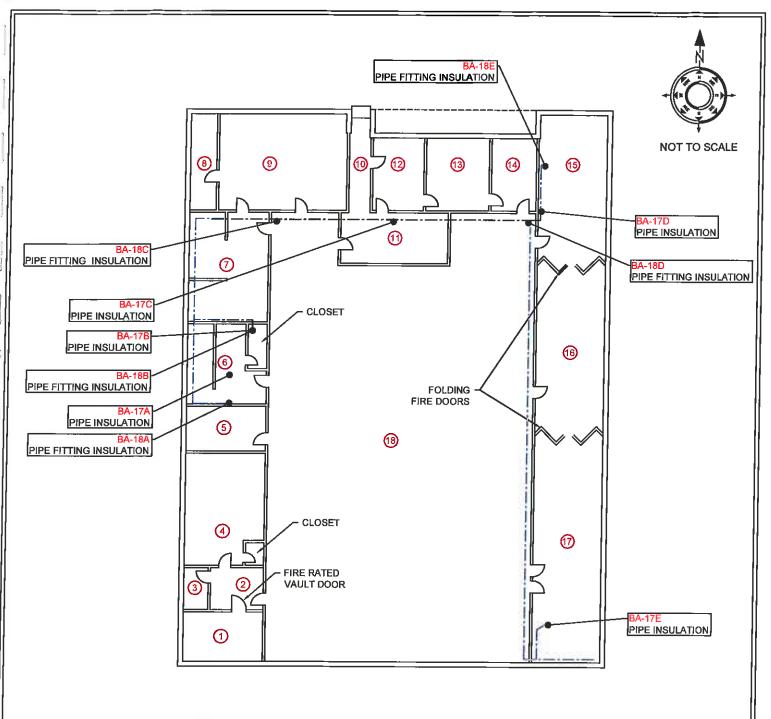
DENOTES ROOM NUMBERS DEVELOPED FOR SURVEY

OK-### SAMPLES CONTAINING ASBESTOS

OK-### SAMPLES NOT CONTAINING ASBESTOS



Figure 1
Asbestos Surface Sampling Locations
Bristow Armory
700 W. 5th Avenue
Bristow, Oklahoma 74010



DOMESTIC WATER PIPE (INSULATED)

DENOTES ROOM NUMBERS DEVELOPED FOR SURVEY

OK-### SAMPLES CONTAINING ASBESTOS

OK-### SAMPLES NOT CONTAINING ASBESTOS



ASSOCIATES, INC.
2520 West I-44 Service Road, Ste. 200
P.O Box 57827
Oklahoma City, OK 73157-7827
Phone: 405/528-7017, Fax: 405/528-3346

Figure 2

Asbestos Thermal Sampling Locations Bristow Armory 700 W. 5th Avenue

Bristow, Oklahoma 74010

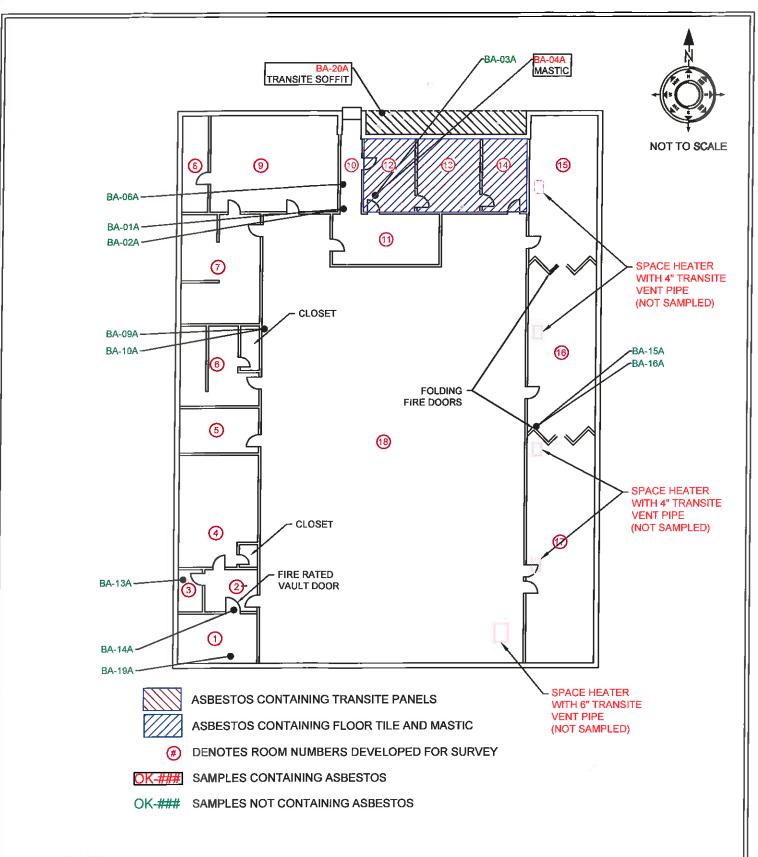




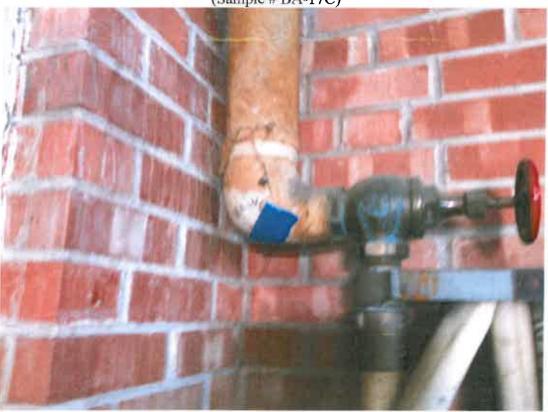
Figure 3
Asbestos Miscellaneous Sampling Locations
Bristow Armory
700 W. 5th Avenue
Bristow, Oklahoma 74010

### Appendix D

**Photo Record** 



Friable Asbestos Containing Thermal Pipe Insulation (Sample # BA-17C)



Friable Asbestos Containing Thermal Pipe Fitting (Sample # BA-18C)



Non-Friable Gray Floor Tile (Sub-Layer) in Room 12 (Sample # BA-04A)



Non-Friable Transite Heater Vent Pipe (Not Sampled)

### LEAD-BASED PAINT INSPECTION REPORT

NATIONAL GUARD ARMORY 700 WEST 5<sup>TH</sup> AVENUE BRISTOW, OKLAHOMA 74010

GMR Project Number 2012017 March 16, 2012



APR O MIT

IAND PROTECTION DIVISION DEPARTMENT OF ENVIRONMENTAL QUALITY

Oklahoma Department of Environmental Quality
Land Protection Division
P. O. Box 1677
Oklahoma City, OK 73101-1677
Attention: Mr. Dustin Davidson

GMR & Associates, Inc.

ENGINEERS, PLANNERS, ENVIRONMENTAL SPECIALISTS, HYDROGEOLOGISTS

2520 West I-44 Service Road, Suite 200 P.O. Box 57827

Oklahoma City, OK 73157-7827 Telephone: 405-528-7017

Fax: 405-528-3346

Prepared by:

Jason Lee

Basin Environmental and Safety Technologies LBP Risk Assessor, OKRASR13451

Reviewed by:

Arless Murray, Jr.

Munay f.

President



### **EXECUTIVE SUMMARY**

Basin Environmental and Safety Technologies (Basin) performed a lead-based paint inspection of the interior and exterior painted surfaces at the Former National Guard Armory building on February 22, 2012. The property is located at 700 W. 5th Ave., Bristow, OK 74010-2907 and is owned by the City of Bristow Oklahoma, 110 W. 7<sup>th</sup> Ave., Bristow, OK 74010 (918-367-6244). The inspection identified the presence, quantity, locations, and characteristics of lead on all interior and exterior painted surfaces and building components. Surfaces were tested according to the specifications described in the protocols for lead-based paint testing in the Department of Housing and Urban Development's (HUD) Guidelines, Chapter 7 (1997 revision) and any applicable Federal, State, and Local regulations.

The objective of the inspection was to identify surfaces with lead in concentrations above the Environmental Protection Agency's (EPA) threshold of 1.0 mg/cm² by X-Ray Fluorescence (XRF) analysis. A total of nineteen (19) room equivalents, including the building exterior were inspected.

Surfaces found to contain lead-based paint by XRF analysis are listed in the table below. All testing combinations not specifically tested, but identical to those represented below should be considered positive for lead-based paint unless otherwise noted. A listing of all tests can be found in **Appendix A**.

Reading Number	Room	Side	Component	Feature	Color	Condition	Substrate	Lead (mg/cm <sup>2</sup> )
368	18	D	Window	Header	Gray	Fair	Metal	1.6
426	6	В		Pipe	Gray	Fair	Metal	1.5
537	Exterior	A	Porch	Ceiling	White	Poor	Metal	1.7

### TABLE OF CONTENTS

EXE	UTIVE SUMMARY	
I.	ERTIFICATION	************
II.	TRODUCTION	
Ш. 1	SPECTION FINDINGS	
IV. S	COPE OF PROJECT	
	1. Background	
	2. 1 CHILLIE	~
	3. Equipment  Methodology	د
	·· iviculouology	2
V. R	COMMENDATIONS	ر
VI. L	MITATIONS	······································
		5
Appen	ix A: X-Ray Fluorescence Analyzer Data	
Appen	ix B: Photographs of Lead-Based Paint Locations	
Appen	ix C: Building Diagram	
Appen	ix D: Lead-Based Paint Inspector/Risk Assessor and Firm Certifications	
Appen	IX E: ARF Performance Characteristics Sheet	
Appen	x F: XRF Calibration Record	

### I. CERTIFICATION

I certify that this inspection, conducted at the Former National Guard Armory located at 700 W. 5th Ave., Bristow, OK 74010-2907, complies with accepted standards, practices, and regulations promulgated by the U.S. Department of Housing and Urban Development, the Environmental Protection Agency, and the Oklahoma Department of Environmental Quality. The results accurately reflect the condition of the property at the time the inspection was performed.

Certified L	<u>ead Basec</u>	l Paint I	nspector/	Risk	Assessor

Jason Lee

Certified Lead-Based Paint Inspector/Risk Assessor Registration No: OKRASR13451 State: OK

Certified Lead Based Paint Firm No. OKFIRM13434
Basin Environmental and Safety Technologies
3120 S. Meridian Ave.
Oklahoma City, OK 73119
405-232-5737

	Reviewer Initials:
ld Wolfard	13.
1	d Wolfard

### II. INTRODUCTION

Basin Environmental and Safety Technologies (Basin) performed a lead-based paint inspection of the interior and exterior painted surfaces at the Former National Guard Armory building on February 22, 2012. The property is located at 700 W. 5th Ave., Bristow, OK 74010-2907 and is owned by the City of Bristow Oklahoma, 110 W. 7<sup>th</sup> Ave., Bristow, OK 74010 (918-367-6244). The inspection identified the presence, quantity, locations, and characteristics of lead on all interior and exterior painted surfaces and building components. Surfaces were tested according to the specifications described in the protocols for lead-based paint testing in the Department of Housing and Urban Development's (HUD) Guidelines, Chapter 7 (1997 revision) and any applicable Federal, State, and Local regulations.

The objective of the inspection was to identify surfaces with lead in concentrations above the Environmental Protection Agency's (EPA) threshold of 1.0 mg/cm<sup>2</sup> by X-Ray Fluorescence (XRF) analysis. A total of nineteen (19) room equivalents, including the building exterior were inspected.

### III. INSPECTION FINDINGS

Surfaces found to contain lead-based paint by XRF analysis are listed in **Tables 1 and 2** below. All testing combinations not specifically tested, but identical to those represented below should be considered positive for lead-based paint unless otherwise noted. A listing of all tests can be found in **Appendix A**.

Table 1: Window Components with Lead-Based Paint

Reading Number	Room	Side	Component	Feature	Color	Condition	Substrate	Lead (mg/cm²)	Window Size & Quantity
368	18	D	Window	Header	Grav	Fair	Motel	1.6	
			** 11140**	Ticauci	Gray	rair	Metal	1.6	36" x 36" (26)

Table 2: Miscellaneous Surfaces with Lead-Based Paint

Reading Number	Room	Side B	Component	Feature	Color	Condition	Substrate	Lead (mg/cm²)
426	6	В		Pipe	Gray	Fair	Metal	1.5
537	Exterior	Α	Porch	Ceiling	White	Poor	Metal	1.3
				CVIIIIS	TV ALLEO	1 001	ivietai	1./

Table 3: Lead-Containing Tile Locations

Reading Number	Room	Side	Component	Color	Condition	Substrate	Lead (mg/cm <sup>2</sup> )
394	3	D	Window Sill	Beige	Intact	Tile	1 /
404	4	D	Window Sill	Beige	Intact	Tile	1.4
414	2	D	Window Sill	Beige	Intact	Tile	1.0
430	6	D	Window Sill	Beige	Intact	Tile	2.0

Table 3: Lead-Containing Tile Locations (continued)

Reading Number	Room	Side	Component	Color	Condition	Substrate	Lead (mg/cm2)
431	6	A	Wall	Beige	Intact	Tile	2,4
439	7	D	Window Sill	Beige	Intact	Tile	
440	7	D	Wall	Beige	Intact	Tile	2.9
528	17	В	Window Sill	Beige			1.8
-4 T'1 1 ·			TT IIIGO W DIII	perge	Intact	Tile	2.1

Note: Tile glazing containing lead is not classified as lead-based paint per 40 CFR 745.103

Photographs of lead-based paint locations can be found in **Appendix B**. Diagrams identifying room equivalents and lead-based paint locations can be found in **Appendix C**.

### IV. SCOPE OF PROJECT

### 1. Background

The property, located at 700 W. 5th Ave., Bristow, OK 74010-2907, was constructed 1954. The property consists of a brick building with approximately 11,216 square feet of floor space. The building is composed of one single level structure containing nineteen (19) room equivalents. Exterior walls on the main building (and/or annex building) for the purposes of this report are considered a room equivalent.

### 2. Training

All inspectors utilized by Basin are EPA/Oklahoma Department of Environmental Quality (ODEQ) licensed Lead-Based Paint Inspector/Risk Assessors. Furthermore, all Inspector/Risk Assessors are aware of the hazards associated with and the safe handling of radioactive materials. See **Appendix D** for copies of appropriate training documentation.

### 3. Equipment

A Niton Model XLp703AW (Serial #10713) XRF Analyzer was used for the inspection. The instrument contained Cadmium-109 as its radioactive source. The source was installed on April 14, 2011. During the inspection, the XRF was used in K+L testing mode for all surfaces. The Performance Characteristics Sheet for the instrument can be found in **Appendix E**. The manufacturer calibration record for the instrument can be founding **Appendix F**.

### 4. Methodology

The inspection procedure used at this location complies with the EPA Performance Characteristic Sheet (PCS) for the specific XRF instrument used during the inspection; this includes adhering to the manufacturer's modifications and recommendations. The specific instrument used was manufactured by NITON Corporation, 900 Middlesex

Turnpike, Building 8, Billerica, Massachusetts 01821. The lead-based paint inspection and testing protocols followed are found in the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (June 1995), Chapter 7 (1997 Revision) and all State and Local regulations were followed. The standard threshold for lead-based paint as per HUD/EPA and the ODEQ of 1.0 mg/cm² was utilized for classification of positive (above the threshold) and negative (below the threshold). When evaluating this report, it is assumed that (according to Chapter 7 of the HUD Guidelines) if one testing combination is positive for lead-based paint, then all other similar testing combinations are positive. The same assumption applies to negative readings. Any inconclusive readings are immediately followed by an additional reading of the same testing combination and test location.

Surfaces were classified by a testing combination consisting of the room equivalent, building component type, and substrate. The sides of room equivalents were labeled A, B, C, and D. Side A is the address (street facing) side of the building. Sides B, C, and D are identified clockwise of Side A while facing the address side of the building. Paint conditions were recorded as either "intact", "fair", or "poor." Paint in poor condition was defined as deterioration of more than two square feet on large components such as walls or 10% on smaller components such as baseboards. Paint in "fair" condition was defined as deterioration of less than or equal to two square feet on large components or 10% on smaller components. Paint in "intact" condition was defined as surfaces with no deteriorated paint. Interior painted surfaces that were tested included but were not limited to walls, doors, windows, trim, vents, stairwells, ceilings, cabinets, and bookcases.

Calibration of the XRF instrument was checked using a lead paint standard known to contain  $1.0~\text{mg/cm}^2$  of lead. The instrument was checked three times before the inspection begins and three times when the inspection is completed. Additionally, on days that the inspection lasted more than four hours, the instrument calibration was checked every four hours during the inspection. The instrument maintained a consistent calibration reading within the manufacturer's range of  $0.8-1.2~\text{mg/cm}^2$  for this inspection.

### V. RECOMMENDATIONS

Options for controlling potential lead-based paint hazards include, but are not limited to:

- Removal and replacement of building components
- Removal of lead-based paint
- Encapsulation of lead-based paint
- Enclosure of lead-based paint

Based on conditions present at this property at the time of the inspection, Basin recommends the following interim control and abatement options:

- · Repainting and maintenance of paint condition of drill floor window headers
- Remove and replace piping with lead-based paint in room 6
- Removal of deteriorated lead-based paint on exterior porch ceiling

Basin estimates the cost for the above mentioned lead-based paint abatement option to be between \$6,000 and \$9,000.

### VI. LIMITATIONS

Environmental conditions are subject to change and conditions reported herein apply only to the date and time of the testing. Therefore, changes in environmental conditions including, but not limited to the condition of painted components may change following this inspection are not predicted by this report. Those areas that are not accessible at the time of the inspection should be considered positive for the presence of lead-based paint and lead hazards.

This document is the rendering of a professional service, the essence of which is to render advice, judgment, opinion, or professional skill. No attempt was made to document the condition of each and every structural or nonstructural element. In the event that additional information becomes available that could affect the conclusions reached in this investigation, Basin reserves the right to review and change if required, some or all of the opinions presented herein.

APPENDIX A

Rd #	Time		Duration	Units	Site	Room	Sirte	Component	Feature	Color	Condition	Substrate	Results	Depth Index	Action Level	Lead (mg/cm2)	Lead Erro
360	2/22/201	12 11:52	78.52	cps						1	-					4.53	
361	2/22/201	2 11:53	31.04	mg / cm ^2				Calibrate		1			Positive	1.04	1	1	
362	2/22/201	2 11:54	21.09	mg/cm ^2				Calibrate			1		Positive	1.05	1	1	
363	2/22/201	2 11:54	20,69	mg/cm^2				Calibrate		1			Negative	1.02	1	0.9	0
364	2/22/201	2 11:59	7.23	mg/cm ^2	Bristow Armory	18		Ceiling		Gray	Intact	Wood	Negative	1.26	1		
365	2/22/201	2 11:59	5	mg/cm^2	Bristow Armory	18	$\mathbf{I}$	Ceifing	Beam	Gray	Intact	Metal	Negative	1.14	1	0.6	0
366	2/22/201		3.06	mg / cm ^2	Bristow Armory	18		Ceiling	Crossmbr	Gray	Intact	Metal	Negative	3.09	1	< LOD	0.
367	2/22/201			mg / cm *2	Bristow Armory	18	D	Window	Sash	Gray	Fajr	Metal	Negative	1.16	1	0.8	0
368	2/22/201		2.29	mg / cm ^2	Bristow Armory	18	D	Window	Header	Gray	Fair	Metal	Positive	1.37	2.4	1,6	0
369	2/22/201	2 12:04		mg / cm ^2	Bristow Armory	18	D	Wafi	Upper Trim	Gray	Fair	Wood	Negative	1.41	1	< LOD	0.6
370	2/22/201		1.53	mg / cm ^2	Bristow Armory	18	C	Door	Frame	White	Fair	Metal	Negative	1	1	< LOD	0.0
371	2/22/201	2 12:09	1,52	mg / cm ^2	Bristow Armory	18	С	Door		White	Fair		Negative	1		< LOD	0.0
372	2/22/2012	2 12:09	1.16	mg/cm^2	Bristow Armory	18	С		Board	Gray	Feir		Negative	1		< LOD	0,6
373	2/22/2012	2 12:10	7.64	mg/cm^2	Bristow Armory	18	В	Garage Door	Frame	Red	Fair		Negative	1.16		< LOD	0.2
374	2/22/2012	2 12:11	4.58	mg / cm ^2	Bristow Armory	18	В	Garage Door		Red	Fair		Negative	1.24	1	0.6	0
375	2/22/2012	2 12:12	1.15	mg/cm ^2	Bristow Armory	18	A	Wall		Blue	Falr		Negative	1	1	< LOD	0.0
376	2/22/2012	2 12:12	1,53	mg/cm^2	Bristow Armory	18	A	Bulletin Brd		White			Negative	1		< LOD	0.0
377	2/22/2012	2 12:13		mg / cm ^2	Bristow Armory	18		Wall	Electrical Panel	Red			Negative	- 1		< LOD	0,0
378	2/22/2012			mg / cm ^2	Bristow Armory	1		Wall		Brown			Negative	2.04		< LOD	0.1
379	2/22/2012	2 12:17		mg/cm *2	Bristow Armory		В	Wall		Brown			Negative	2.6		< LOD	0.1
380	2/22/2012			mg/cm^2	Bristow Armory		č	Wall		Brown			Negative	1		< LOD	0.0
381	2/22/2012			mg / cm ^2	Bristow Armory		D	Wali		Brown			Negative			< LOD	0,0
382	2/22/2012			ma/cm*2	Bristow Armory	i		Door		Beige			Negative	1.81		< LOD	0.1
	2/22/2012			mg/cm^2	Bristow Armory	1		Door	Frame	Beige			Negative I	1.61	1	0.03	0.0
384	2/22/2012			mg / cm ^2	Bristow Armory	1		Ceilina	) IGITE	Beige			Negative			< LOD	0.0
	2/22/2012			mg/cm ^2	Bristow Armory	2		Ceiling		Gray			Negative	1,21		< LOD	0.6
	2/22/2012			ng/cm *2	Bristow Armory	2			Beam	Grav			Negative	2,82		< LOD	
	2/22/2012				Bristow Armory	2		Wall	Dealit	White			Vegative	2,02		< LOD	0.0
	2/22/2012			ng/cm^2	Bristow Armory	2		Wall		White			Negative	2 40			
	2/22/2012			ng/cm^2	Bristow Armory	2		Wall		White				3,48		< LOD	0,0
	2/22/2012			ng/cm *2	Bristow Armory	2		Door		Red			Vegative	4 00		LOD	0.0
	2/22/2012			ng/cm ^2	Bristow Armory	2			Frame	Red I			Vegative	1.03		LOD	- 0
_	2/22/2012			ng/cm^2	Bristow Armory	3				Grav			Vegative	4.43	1	LOD	0.4
	2/22/2012			ng/cm ^2	Bristow Armory	3							Vegative	1	- 1	0,6	0.
	2/22/2012			ng / cm ^2	Bristow Armory	3		Window	Header	Gray			Vegative	1.06	1	0.4	0.
_	2/22/2012						_		3-11	Beige			Positive	1.64	:1.	1.4	0.
					Bristow Armory	3		Wali					Vegative	1		LOD	0.0
	2/22/2012				Bristow Armory	3	$\rightarrow$	Ceiling		White			legative	1.04		LOD	0.3
	2/22/2012				Bristow Armory	3							legative	2		LOD	0.7
	2/22/2012				Bristow Armory	3			Jpper Trim	White			legative	2.31		LOD	0.7
	2/22/2012			ng/cm^2	Bristow Armory	4				White			legative	1		LOD	0.8
	2/22/2012				Bristow Armory	4		Ceiling		White			egative	1.21	1 -	LOD	0.7
	2/22/2012				Bristow Armory	4				White			legative	2.09		LOD	0.
	2/22/2012				Bristow Armory	4							legative	1.15		LOD	0.0
	2/22/2012				Bristow Armory	4							legative	2.93	1 <	LOD	0.2
	2/22/2012			ng / cm ^2	Bristow Armory	4 1			3711	Beige			ositive	1.82	1	1.6	0.
	2/22/2012				Bristow Armory	4 (			rame	Black	Intact I	vietal N	legative	1	1 <	LOD	0.0
	2/22/2012				Bristow Armory	4 (		Door		Black	Intact I	vletal N	legative	1	1 <	LOD	0,0
	2/22/2012				Bristow Armory	5 [		Door		White	Fair I	/letal N	legative	. 1	1 <	LOD	0.0
408 :	2/22/2012	12:40	1.53 n	ng/cm^2	Bristow Armary	5 1	o Ti	Door F	rame	White	Fair )	vletal N	legative	- 1	1 .	LOD	0.03

Rd #	Time	Duration	Units	Site	Room	Side	Component	Feature	Color	Condition	Substrate	Results	Depth Index	Accon Level	Lead (mg/cm2)	Lead Error
409	2/22/2012 12:41	1,53	mg / cm ^2	Bristow Armory	5	В	Door	Frame	White	Fair	Wood	Negative	2.34	1	< LOD	0.2
410	2/22/2012 12:41	1.14	mg / cm ^2	Bristow Armory		В	Door		White	Fair	Wood	Negative	2.31	1	< LOD	0.7
411	2/22/2012 12:41	1.53	mg/cm^2	Bristow Armory	5	В	Window	Frame	White	Fair	Wood	Negative	3.01		< LOD	0.4
412	2/22/2012 12:41	1.52	mg/cm^2	Bristow Armory	5	D	Window	Frame	Red	Fair	Metal	Negative	2,25	1	< LOD	0.:
413	2/22/2012 12:42	1.15	mg / cm *2	Bristow Armory	5	D	Window	Sash	White	Poor	Metal	Negative	1		< LOD	0.0
414	2/22/2012 12:43	1,91	mg / cm ^2	Bristow Armory	2	D	Window	Sill	Beige	Intact	Tile	Positive	1.71		1,8	0,
415	2/22/2012 12:43	1.53	mg/cm^2	Bristow Armory	- 5	С	Wall		White	Fair	Brick	Negative	1 1	1	< LOD	0.0
416	2/22/2012 12:44	2.29	mg/cm^2	Bristow Armory	5	D	Wali		White	Fair	Brick	Negative	1	1	< LOD	0,0
417	2/22/2012 12:44	1.16	mg/cm^2	Bristow Armory	5	A	Cabinet	Door	White	Fair	Wood	Negative	7.79		< LOD	0.
418	2/22/2012 12:45	6.87	mg/cm^2	Bristow Armory	5	Α	Cabinet	Shelf	White	Fair	Wood	Negative	2.96	1		
419	2/22/2012 12:46		mg / cm ^2	Bristow Armory	5	i	Ceiling		White	Fair	Wood	Negative	3.05		< LOD	0.3
420	2/22/2012 12:46	2.29	mg/cm^2	Bristow Armory	5		Ceiling	Beam	White	Fair	Wood	Negative	2		< LOD	0.7
421	2/22/2012 12:46		mg / cm ^2	Bristow Armory	5		Ceiling	Upper Trim	White	Fair	Wood	Negative	1.94		< LOD	0.7
422	2/22/2012 12:47		mg/cm^2	Bristow Armory	5		Ceiling	Duct	White	Intact	Metal	Negative	4.08		< LOD	0.49
423	2/22/2012 12:49		mg / cm ^2	Bristow Armory	6		Ceiling	Beam	White	Intact	Wood	Negative	2.12		< LOD	0.3
424	2/22/2012 12:49		mg / cm *2	Bristow Armory	6		Ceiling	Douin	White	Intact	Wood	Negative	2.55		< LOD	1.00
425	2/22/2012 12:50		rng / cm ^2	Bristow Armory	6		Ceiling	Conduit	White	Intact		Negative	10		< LOD	0,76
426	2/22/2012 12:50	3,45	mg/cm ^2	Bristow Armory	6		Ocining	Pipe	Gray	Fair	Metal	Positive	1.36	4		
427	2/22/2012 12:51		mg / cm *2	Bristow Armory	6	_	-	Divider	Beige	Intact	Metal	Negative.	1,01		1,5 0,7	0.3
428	2/22/2012 12:52		mg/cm *2	Bristow Armory			Window	Sash	Beige		Metal		1.01	1		0.1
429	2/22/2012 12:52		mg/cm ^2	Bristow Armory			Window	Header				Negative			< LOD	0.2
430	2/22/2012 12:52	1.53	mg/cm ^2	Bristow Armory		D	Window				Metal	Negative	7.76	1	< LOD	0.68
431	2/22/2012 12:53	1.54			0	4	Wall	Sill	Beige	Intact	Tile	Positive	1.66	1	. 2	0.0
			mg / cm ^2	Bristow Armory		A			Beige	Intact	Tile	Positive	1.79	1	2.4	3,0
432	2/22/2012 12:53		mg / cm ^2	Bristow Armory	6		Wall	Board		Intact		Negative	2.06		< LOD	0.22
433	2/22/2012 12:54		mg/cm^2	Bristow Armory	6		Door	_				Negative	1.52		< LOD	0.84
434	2/22/2012 12:54		mg / cm ^2	Bristow Armory	6			Freme				Negative	3.25		< LOD	0.24
435	2/22/2012 12:55			Bristow Armory	7			Frame				Negative	2.82		< LOD	0.22
436	2/22/2012 12:56		mg / cm ^2	Bristow Armory	7		Door					Negative	3.06		< LOD	0.87
437	2/22/2012 12:56			Bristow Armory	7	_		Header				Negative	2.73	1	< LOD _	0.27
438	2/22/2012 12:56		mg / cm *2	Bristow Armory	7	_		Frame				Negative	2.29	1	0.09	0.04
439	2/22/2012 12:57	1,53	mg / cm ^2	Bristow Armory	7	_	Window	Silt	Beige	Intact	Tile	Positive	2,59	1	2.9	1.1
	2/22/2012 12:57	1.92	mg / cm ^2	Bristow Armory	7		Wall		Beige	Intact	Tile .	Positive	1.71	1	1.8	0.6
	2/22/2012 12:58			Bristow Armory	7			Divider				Negative	1.63	. 1	< LOD	0.08
	2/22/2012 12:59			Bristow Armory	7		Wall		White	Intact	Brick	Negative	1	1	< LOD	0.03
443	2/22/2012 12:59			Bristow Armory	7		Wall			Intact	Brick	Negative	1	1	< LOD	0.03
	2/22/2012 12:59	1.53	ng/cm ^2	Bristow Armory	7	C	Wall		White	Intect	Brick	Negative	1	1	< LOD	0.03
445	2/22/2012 12:59	1.9	ng/cm^2	Bristow Armory	_ 7	D	Wall		White	Intact	Brick I	Vegativa	1	1	< LOD	0.03
446	2/22/2012 13:00	4.2	ng/cm ^2	Bristow Armory	7		Ceiling	Upper Trim	White	Intact '	Wood	Negative	1.84	1	< LOD	0.33
447	2/22/2012 13:00	1.91	ng/cm^2	Bristow Armory	7		Ceiling	Beam	White	Intect	Wood	Vegative	1.23	1	< LOD	0.75
448	2/22/2012 13:01	1.53	ng/cm^2	Bristow Armory	7		Celfing		White	Intact		Negative	1.33	1.	< LOD	0,9
449	2/22/2012 13:01	1.53 r	ng/cm^2	Bristow Armory	7		Ceiling	Conduit	White	intact		Vegative	2.95	1 -	< LOD	0.16
450	2/22/2012 13:02	2.31	ng/cm^2	Bristow Armory	7 /	A I	Walf	Board				Vegative	1.58		< LOD	0.72
	2/22/2012 13:03			Bristow Armory	8			Board				Vegative	11		< LOD	0.74
452	2/22/2012 13:04			Bristow Armory	8			Frame				Vegative	4.11		< LOD	0.75
	2/22/2012 13:04			Bristow Armory	8		Door					Vegative		11	0.4	0.2
	2/22/2012 13:06			Bristow Armory	8		Ceiling					Vegative .	1.59		< LOD	0.92
	2/22/2012 13:06			Bristow Armory	8 (			Beam				Vegative	1.82		< LOD	0.92
	2/22/2012 13:06			Bristow Armory	8			Jpper Trim				legative	2.2		LOD	0.16
	2/22/2012 13:08			Bristow Armory	9			Upper Trim			-				< LOD	0.16
-51	DEE12012 13.00	1,8	ng/UIIZ	Director Amiliary	9		Centry	obbei iliiti	Asture	inaci \	rvuod [f	legative	<u>1</u>	1]*	LOD	0,0

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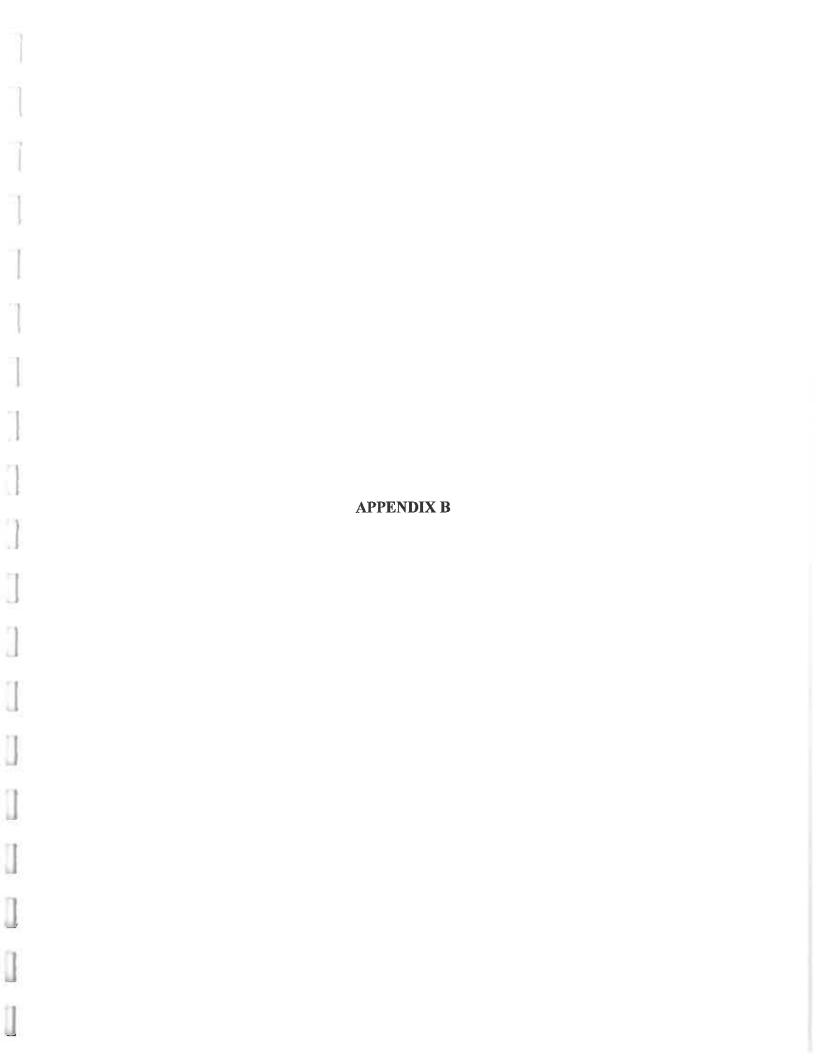
W A		Duration	Units	8	Smi	Promis	Side	Component	Feature &	Color	Condition	Substrate	Results	Depth Index	Artion Level	Lead (mulcin2)	Cead Error
458	2/22/2012 13:09		mg/cr	n ^2	Bristow Armory	9		Ceiling	Beam	White	Intact	Wood	Negative	2.5		0,4	0.2
459	2/22/2012 13:09		mg/cn		Bristow Armory	9		Ceiling		White	intact	Wood	Negative	1.2		l < LOD	0,3
460	2/22/2012 13:11		mg / cr		Bristow Armory	9		Door		Beige	Intact	Wood	Negative	1		< LOD	0.00
461	2/22/2012 13:12		mg/cn		Bristow Armory	9	-	Door	Frame	Beige	Intact	Wood	Negative	1.38		< LOD	0,59
462	2/22/2012 13:13		mg / cn		Bristow Armory	9		Window	Sash	White	Poor	Metal	Negative	1.72		< LOD	0.12
463	2/22/2012 13:14		mg/cn		Bristow Armory	10		Door	Frame	Beige	Fair	Wood	Negative	2.1		< LOD	0.2
464 465	2/22/2012 13:15		mg / cn		Bristow Armory	10	C	Door		Beige	Fair	Wood	Negative	3.08		< LOD	0.2
466	2/22/2012 13:16		mg/cn		Bristow Armory Bristow Armory	10 10		Ceiling Ceiling	Beam	White	Intact	Wood	Negative	1.11		< LOD	0.7
467	2/22/2012 13:19		mg/cn		Bristow Armory	11	^	Wall	Deam	White	Intact	Wood	Negative Negative	3.87		< LOD < LOD	0.8
468	2/22/2012 13:19		mg/cm		Bristow Armory	11		Wali		White	Intact	Drywali	Negative	<u> </u>		< LOD	0.0
469	2/22/2012 13:19		mg / cn		Bristow Armory	11		Wall		White	Intact	Drywali	Negative			< LOD	0.0
470	2/22/2012 13:20		ma/cn		Bristow Armory	11		Wati	-	White	Intact	Drywall	Negative	<del>-                                    </del>		< FOD	0.0
471	2/22/2012 13:21		mg/cm		Bristow Armory	11		Wall		White	Intact	Drywall	Negative	- 1		< LOD	0.0
472	2/22/2012 13:21		mg/cm		Bristow Armory	11		Door		Beige	Intact	Wood	Negative	1.64		< LOD	0.0
473	2/22/2012 13:21		mg/cm		Bristow Armory	11		Door	Frame	Beige	Fair		Negative	1.39		< LOD	0.7
474	2/22/2012 13:22		mg/cm		Bristow Armory	11		Door	Threshold	White	Poor	Concrete	Negative	1.91		FLOD I	0.4
475	2/22/2012 13:25		rng/cm		Bristow Armory	14		Door	Frame	Red	Fair	Wood	Negative	2.44		< LOD	0.2
476	2/22/2012 13:25		mg/cm		Bristow Armory	14		Door	i iumo	Brown		Wood	Negative	1.32		< LOD	0.2
477	2/22/2012 13:26		mg/cm		Bristow Armory	14		Ceiling		White	intact	Wood	Negative	2,28		< LOD	0.8
478	2/22/2012 13:27		mg/cm		Bristow Armory	14		Ceiling	Beam	White		Wood	Negative	2.07		< LOD	0.8
479	2/22/2012 13:27		mg/cm		Bristow Armory	14		Celling	Upper Trim	White			Negative	3,88		< LOD	0.3
480	2/22/2012 13:27		mg/cm		Bristow Armory	14			Conduit	White			Negative	11		< LOD	0.0
481	2/22/2012 13:29		mg/cm		Bristow Armory	15			Conduit	White			Negative	1		< LOD	0.0
	2/22/2012 13:29		mg/cm		Bristow Armory	15		Ceiling	Upper Trim	White			Negative	2.27		< LOD	0.0
483	2/22/2012 13:29		mg/cm		Bristow Armory	15		Ceiling	Beam	White			Negative	2.19		< LOD	0.13
	2/22/2012 13:29		mg/cm		Bristow Armory	15		Celling		White			Negative	1.36		< LOD	0.72
485	2/22/2012 13:30	1.53	mg / cm	^2	Bristow Annory	15			Frame	Ğrav			Negative	3.97		< LOD	0.81
486	2/22/2012 13:30	1.15	mg/cm	^2	Bristow Armory	15.		Door		Red	Fair		Negative	1,98	1	< LOD	0.94
487	2/22/2012 13:31	1.53	mg/cm	^2	Bristow Armory	15 (		Divider		White	Fair		Negative	2.06	1	< LOD	0.78
488	2/22/2012 13:31	4.59	mg/cm	^2	Bristow Armory	15 0	,	Divider	Frame	White	Fair		Negative	2.19	1	< LOD	0.06
489	2/22/2012 13:32	7.67	mg/cm		Bristow Armory	15 E		Window	Sash	Gray	Poor		Negative	1.24		0,9	0.1
490	2/22/2012 13:33	2.29	mg/cm	^2	Bristow Armory	15 E		Window	Header	Gray	Fair	Metal	Negative	1.14	1	0.7	0.2
491	2/22/2012 13:34	4.19	mg/cm	^2	Bristow Armory	15 E	3	Wall		White	Fair	Brick	Negative	1.27	1	< LOD	0.03
	2/22/2012 13:34		mg/cm		Bristow Armory	15		VVall		White	Fair	Brick	Negative	1	1	< LOD	0.03
	2/22/2012 13:38		mg/cm		Bristow Armory	15 E		<i>Wall</i>		White	Fair	Brick .	Null	1	1	< LOD	0.03
	2/22/2012 13:38	2.29	ng/cm	^2	Bristow Armory	16 E		Wall		White	Fair	Brick	Negative	1	1	< LOD	0.03
	2/22/2012 13:39		mg/cm		Bristow Armory	16		Wall		Vvhite	Fair	Brick	Negative	1	1	< FOD	0.03
	2/22/2012 13:39		ng/cm		Bristow Armory	16				White			Negative	1.45	1	< LOD	0.75
	2/22/2012 13:40		ng/cm		Bristow Armory	16							Negative	1	1	< LOD	0.67
	2/22/2012 13:41		ng/cm		Bristow Armory	16 C				Blue			Negative	1.22	1	< LOD	0.51
	<u>2/2</u> 2/2012 13:41		ng/cm		Bristow Armory	16 0			Door	Yellow			Negative	3.51		< LOD	0.09
	2/22/2012 13:41		ng/cm		Bristow Armory	16 0							Negative	1.81		< LOD	0.13
	2/22/2012 13:42		ng/cm		Bristow Armory	16		Door					Negative	1.49	1	< LOD	0.85
	2/22/2012 13:42		ng/can		Bristow Armory	16		Ceiling		White	Fạir 1	Wood	Negative	2.88	1	< LOD	0.9
	2/22/2012 13:43		ng/cm		Bristow Armory	16				White			Negative	2.37	1	< LOD	0.91
	2/22/2012 13:44		ng/cm		Bristow Armory	16	_			White			Negative	2.03		< LOD	0.08
	2/22/2012 13:45		ng/cm		Bristow Armory	16		Ceiling	leater Support	White	Fair I	Vietal	Negative	3.7	1	< LOD	0.17
506 2	2/22/2012 13:52	1.53 r	ng / cm	^2 T	Bristow Armory	12		Ceilina	Jpper Trim	VVhite	Intact	Wood I	Negative	1.39	1	< LOD	0.1

Rd #	Time	Duration	Units	Site	Room	Side	Component	Feature	Color	Condition	Substrate	Results	Depth Index	Action Level	Lead (mg/cm2)	Lead Error
507	2/22/2012 13:55	5.74	mg/cm^2	Bristow Armory	12		Ceiting	Beam	White	Intact	Wood	Negative	2.11	1	0.4	0.2
508	2/22/2012 13:57		mg / cm ^2	Bristow Armory	12	A	Window	Frame	Belge	Intact	Metal	Negative	3	1	< LOD	0.37
509	2/22/2012 13:57	1.9	mg / cm ^2	Bristow Armory	12	Α	Window	Sash	Beige	Poor	Metal	Negative			< LOD	0.22
510	2/22/2012 13:58		mg/cm ^2	Bristow Armory	12		Window	Frame	Brown	Intact	Wood	Negative			< LOD	0.7
511	2/22/2012 13:58		mg/cm ^2	Bristow Armory	12		Window	Door	Brown	Intact		Negative			< LOD	0.29
512	2/22/2012 13:59	1.91	mg/cm^2	Bristow Armory	12		Door	Frame	Brown	Intact	Wood	Negative	2.88		< LOD	0.29
513	2/22/2012 14:00	0.77	mg/cm^2	Bristow Armory	12		Door		White	Intact		Negative	10		< LOD	1.21
514	2/22/2012 14:00	1.53	mg / cm ^2	Bristow Armory	13	В	Door		Brown	Poor	VVood	Negative	2.72	1	< LOD	0.28
515	2/22/2012 14:00	1.14	mg/cm ^2	Bristow Armory	13	В	Door	Frame	Brown	Poor	Wood	Negative	1.65	1	< LOD	0.16
516	2/22/2012 14:01	1.93	mg / cm ^2	Bristow Armory	13	Α	Window	Frame	Beige	Fair	Metal	Negative	2.5		< LOD	0.16
517	2/22/2012 14:01	1.92	mg/cm^2	Bristow Armory	13	Α	Window	Sash	Beige	Fair		Negative	2.52		< LOD	0.14
518	2/22/2012 14:03	1.53	mg / cm ^2	Bristow Armory	13		Ceiling		White	Fair	Wood	Negative	2.77	1	< LOD	0.92
519	2/22/2012 14:04	1.14	mg / cm ^2	Bristow Armory	13		Celling	Upper Trlm	VVhite	Fair	Wood	Negative	1.72		< LOD	0.13
520	2/22/2012 14:11	1.16	mg / cm ^2	Bristow Armory	17		Ceiling	Upper Trim	Gray	Fair	Wood	Negative	2.26		< LOD	0.21
521	2/22/2012 14:12	1.54	mg / cm ^2	Bristow Armory	17		Ceiling		Gray	Fair	Wood	Negative	1.05	1	< LOD	0.85
522	2/22/2012 14:12	3.44	mg/cm^2	Bristow Armory	17		Ceiling	<u>Beam</u>	Gray	Fair	Wood	Negative	1,29		< LOD	0.39
523	2/22/2012 14:12	2.29	mg / cm ^2	Bristow Armory	17	D	Garage Door	Header	Gray	Feir	Wood	Negative	2.42	1	< LOD	0.72
524	2/22/2012 14:15		mg / cm ^2	Bristow Armory	17	D	Door		Gray	Fair	Wood	Negative	1		< LOD	0.45
525	2/22/2012 14:16	1.52	mg / cm ^2	Bristow Armory	17	D	Door	Frame	Red	Fair	Wood	Negative	2.06	1	< LOD	0.74
526	2/22/2012 14:16		mg / cm ^2	Bristow Armory	17	В.	Window	Header	Gray	Роог	Metal	Negative	1.23	1	< LOD	0.19
527	2/22/2012 14:17			Bristow Armory	17	В	Window	Sash	Gray	Poor	Metal	Negative	1	.1	< LOD	0.08
528	2/22/2012 14:17	4.21	ma / cm ^2	Bristow Armory	17		Window	SIII	Beige	Intact	Tile	Positive	1.88	10	2.1	0.3
529	2/22/2012 14:19	9.53	mg/cm^2	Bristow Armory	Exterior	С	Garage Door	Corner Board	White	Poor	Metal	Negative	5.47	1	0.3	0.15
530	2/22/2012 14:21	78,55							1 1						4.31	0
531	2/22/2012 14:23	1.16	mg/cm^2	Bristow Armory	Exterior	С	Door	Casing	White	Poor	Metal	Negative	10	1	< LOD	0.64
532	2/22/2012 14:23	1.53	mg / cm ^2	Bristow Armory	Exterior	C	Door	Frame	White	Poor	Wood	Negative	1	1	< LOD	0.58
533	2/22/2012 14:24			Bristow Armory		C	Wall	Fascla	White	Роог	Wood	Negative	6.47	1	< LOD	0.64
534	2/22/2012 14:26	8.05	mg / cm ^2	Bristow Armory	Exterior	A	Window	Frame	White	Poor	Metal	Negative	5.33	1	< LOD	0.16
535	2/22/2012 14:27	8.06	mg / cm ^2	Bristow Armory	Exterior	Ā	Window	Sash	White	Poor	Metal	Negative	4.62	1	0.19	0.12
536	2/22/2012 14:27			Bristow Armory	Exterior	Α	Window	Header	White	Poor	Metal	Negative	6.27	1	< LOD	0.74
537	2/22/2012 14:28		mg / cm ^2	Bristow Armory	Exterior	A c	Porch	Ceiling	White	Poor	Metal	Positive	5.02	: 1	1.7	0.4
538	2/22/2012 14:30	2.29	mg/cm^2	Bristow Armory	Exterior .	A	Porch	Upper Trim	White	Poor	Wood	Negative	8.78	1	< LOD	0.64
539	2/22/2012 14:32	1.14		Bristow Armory	Exterior .	A		Pipe	White	Poor		Negative	1.09	1	< LOD	0.04
540	2/22/2012 14:32			Bristow Armory	Exterior .	A		Pipe	Red	Poor	Metal	Negative	1.41	1	< LOD	0.09
541	2/22/2012 14:33	1.91	mg/cm^2	Bristow Armory	Exterior .	Ā		Post	Yellow	Intact	Metal	Negative	1.53	1	< LOD	0.03
542	2/22/2012 14:33			Bristow Armory		Ā		Pole				Negative	1		< LOD	0.03
543	2/22/2012 14:34							Stripe				Negative	1.76	1	< LOD	0.04
544	2/22/2012 14:35							Pole				Negative	1		< LOD	0,72
	2 22,2017, 14:37		mg / cm ^2				Calibrate					Positive	1.02	1	1	0.1
546	2/22/2012 14:37		ng/cm^2				Calibrate					Positive	1,04	1	1	0.1
	2/_2 2012 14:38		mg/cm 2			-	Calibrate					Positive	1,13	7	1.1	0.1

J

E

3





Former Bristow Armory



Reading 426, Room 6, Metal Pipe



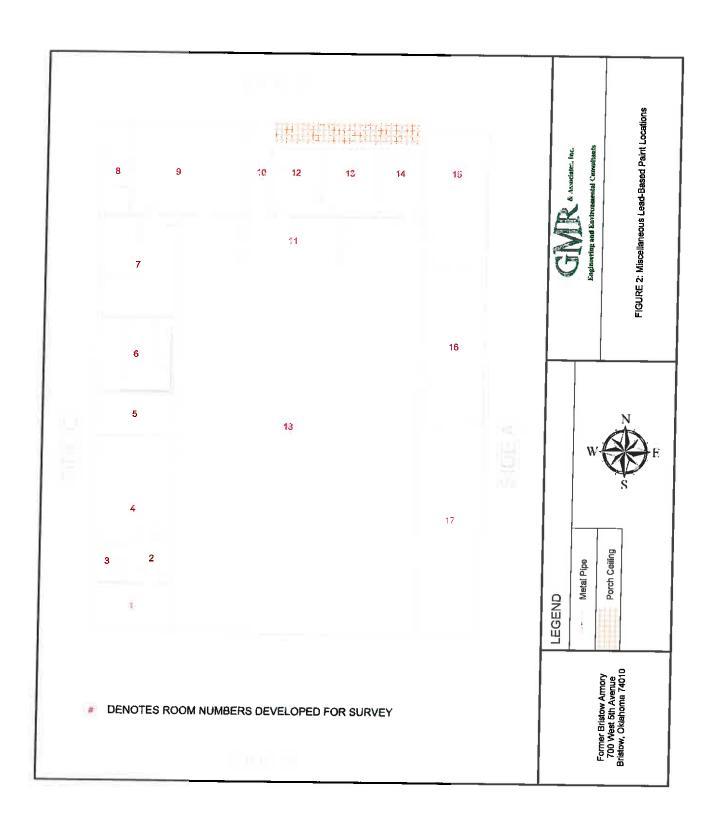
Reading 368, Room 18, Metal Window Headers

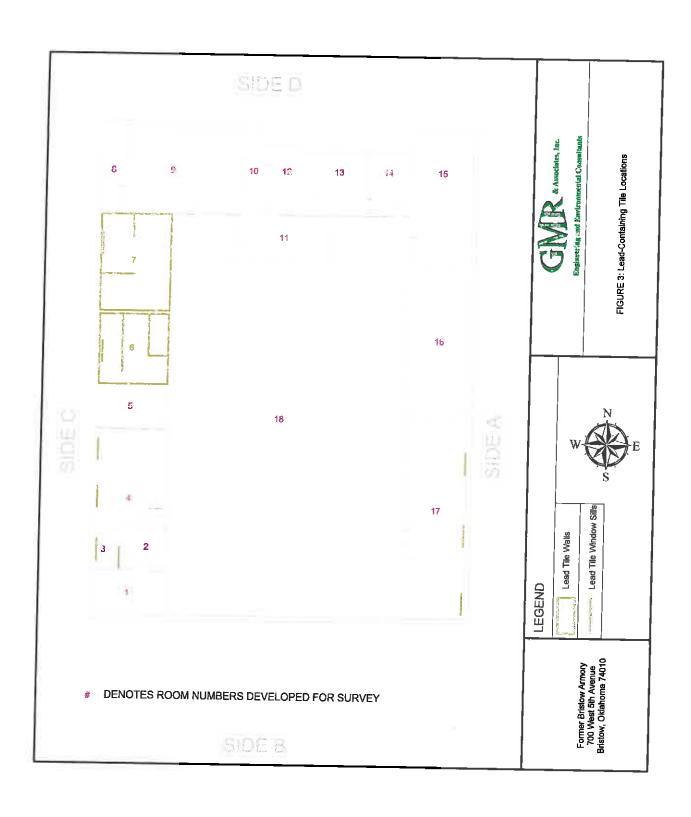


Reading 537, Exterior, Metal Porch Ceiling

APPENDIX C

	ε η 7	10 12 %3 11	14 15		GIVIE & Associates, Inc. Engineering and Environmental Consultants	FIGURE 1: Window Components with Lead-Based Paint
d mis	\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18 NOTE: Windows located near ceifing of drill floor		100 E	Window Frames	V Components  Frame & TT
#	DENOTES ROOM	M NUMBERS DEVELOPED FOR SURVEY			Former Bristow Armony 700 West 5th Avenue	stow, Oklahoma 74010  Window Components  Window Frame & Components





APPENDIX D

# Department of Environmental Quality

### JASON LEE

## has met the grouteenrone of the Oklebourn Land Based Frien Management Act and its corried as a Land-Based Prient INSPECTOR/RISK ASSESSOR

Certification #: OKRASR13451

This cardificate is valid from the class of insuance and expires as prescribed by factor on: 4/1/2011 Expires on: 3/31/2012

Issued on: 4/1/2011

Division Director Air Quality Division



Environmental Programs Manager Air Quality Division



APPENDIX E

### **Performance Characteristic Sheet**

**EFFECTIVE DATE:** 

September 24, 2004

**EDITION NO.: 1** 

### MANUFACTURER AND MODEL:

Make:

Niton LLC

Tested Model: XLp 300 Source:

<sup>109</sup>Cd

Note:

This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and

XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A. XLp 300A, XLp 301A, XLp 302A and XLp 303A. XLi 700A, XLi 701A, XLi 702A and XLi 703A. XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

### FIELD OPERATION GUIDANCE

### **OPERATING PARAMETERS:**

Lead-in-Paint K+L variable reading time mode.

### **XRF CALIBRATION CHECK LIMITS:**

0.8 to 1.2 mg/cm<sup>2</sup> (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm<sup>2</sup> film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

### SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for: Brick, Concrete, Drywall, Metal, Plaster, and Wood

### INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm²)
Results not corrected for substrate bias on any	Brick	1.0
substrate	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

### **BACKGROUND INFORMATION**

### **EVALUATION DATA SOURCE AND DATE:**

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

### **OPERATING PARAMETERS:**

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

### SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

### **EVALUATING THE QUALITY OF XRF TESTING:**

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

### **TESTING TIMES:**

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

	Testing Times Using K+L Reading Mode (Seconds)										
	All Data			Median for la	boratory-measur (mg/cm²)	ed lead levels					
Substrate	25 <sup>th</sup> Percentile	Median	75 <sup>th</sup> Percentile	Pb < 0.25	0.25 <u>&lt;</u> Pb<1.0	1.0 ≤ Pb					
Wood Drywall	4	11	19	11	15	11					
Metal	4	12	18	9	12	14					
Brick Concrete Plaster	8	16	22	15	18	16					

### **CLASSIFICATION RESULTS:**

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

### **DOCUMENTATION:**

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

APPENDIX F

### Thermo Fisher SCIENTIFIC The world leader a serving science

Certificate of Calibration

Paint QC (Service)
Document #: FRM018
Revision: A
Revision Date: Sept. 19, 2008

Serial Number: 10713
Resolution: 379.84

Model: XLp703A Escale: 4.07 Software: 5.2D Source: Cd-109

Date of Q.C.: 4/14/2011 Inspector: JC

K+L Mode 20 Second readings each

Std	L	Lerr	ĸ	Кегт	DI	L Status	K Status
1.0 Surface Wood-1	1.10	0.10	0.90	0.30	1.0	OK	ОК
1.0 Surface Wood-2	1.00	0.10	0.90	0.30		OK	OK
1.0 Buried Wood-1	1.10	0.10	0.80	0.30	2.4	ОК	OK
1.0 Buried Wood-2	1.10	0.10	0.80	0.30	2.3	OK	ОК
Blank Wood-1	0.00	0.02	0.13	0.22	2.6	ОК	ОК
Blank Wood-2	0.01	0.02	0.04	0.22		OK	OK
3.5 Surface Wood-1	3.70	0.20	3.30	0.40	1.3	ОК	ОК
3.5 Surface Wood-1	3.60	0.20	3.20	0.40		OK	OK
0.3 Surface Concrete-1	0.30	0.03	0.10	0.37	1.0	ОK	ОK
0.3 Surface Concrete-2	0.29	0.03	0.21	0.38	1.0		OK
Steel-1	0.00	0.02	0.07	0.34	1.0		OK
Stesi-2	0.00	0.02	0.10	0.35	1.0		OK
Pure Pb-1	10.10	1.30	84.80	1.90	1.7		OK .
Pure Pb-2	10.10	1.30	86.30	1.90	1.6		OK
1.0 Surface Drywall-1	1.00	0.10	1.10	0.30	1.1		<del>ok</del>
1.0 Surface Drywall-2	1.00	0.10	0.90	0.30	1.0		OK

STD Mode Readings

Std	Time	Result	
Drywall-1	1.83	0.01	OK
Drywall-2	1.81	0.03	ок
French Plaster-1	1.22	0.01	ОК
French Plaster-2	1.81	0.01	OK .

Jum Callen

This certificate is issued in accordance with Thermo Fisher Scientific factory specifications. The measurements were found to be within specification limits at the time of service and calibration.

Standards are traceable to National Institute of Standards & Technology (NIST) standards. \*\* - Not Certified

Signed:

Thermo Fisher Scientific Nilon Analyzers

800 Middlesex Tumpike Building 8 Billerica, MA 01821

www.thermo.com/niton 1-800-875-1578

### ThermoFisher The world feather inspecting account of

### Certificate of Calibration

Soll OC(Service)
Document#: FRM013
Revision B
Revision Date: Mar. 11, 2009

Unil Sarial Number: 10713

Model: XLp 703AW

Scitmann, 520

Data of Q.C.; 4/14/2011

Resolution: 388.02

Escale: 4,07

Source: Cd-109

repedon\_\_\_\_JC\_\_\_

Run 1 reading per sample for 90 seconds Gements that say in blue RCLD must be recorded NA = Not Available

Elements not in blue need not be detected but record if they are

NET HIGH 2710	Certified	Low	Hitch	Measured	En	$\overline{}$
Mo	19	10	40	13.909	3.237	lox
Zr	NR		1	166.265	13.2	+
Sī	330	280	380	313,754	12,839	ОК
Rb	120	80	160	118,77	8.98	ČK.
Pb	5532	5400	5700	5567,199	101.251	ЮK
Se	NA.	-60	60	5.046	12,273	Оĸ
As	628	510	750	633.68	76.68	ÖK.
Hg	326	Q.	50	25.4	22.7	ĺοκ
Zn	6952	6700	7250	7024,19	128.47	ОK
Cu	2950	2700	3200	2848.41		ÓΚ
N)	14.3	-50	150	24.23		ÖK
Co	10	-270	270	-99.05		ОK
Fe	33800	31500	35500	33856,727		ОK
Mn	10100	9500	11000	10206.4		OK .
Cr	39	-100	120	58.51		OK

SiO2 (Blank)	Certified	Low	High	Measured	Éπ	7
Mo		-10	10	0.134	1,326	lak -
<u>Zr</u>	] [	-10	10	1,346	2.125	<del>lox</del>
Sr	<210	-10	210	0.184	1.365	OK
Rb	0	-200	210	-0.697	1.247	OK
Pb	0	-20	20	-6.976	5,559	OK
Se	1 0	-10	10	-6.635	3.681	lok
As	0	-10	10	-0.459	4.04	ÖK -
Hg	0	-10	10	-2.999	6.81	OK
Zn	1 0	-20	20	-2.266	13.51	OK -
Cu	7 0 1	-30	30	1,618	15.265	OK -
NI NI	0	-50	50	6.444	22.567	lok
Co	1 6 1	-50	50	-8.063	16.813	OK .
Fe	0 1	-108	300	0.944		OK
Mn	0	-70	70	23,163		OK
Cr	0	-120	120	37,354		OK

NIST LOW	Certified	LOW	High	Meacured	Err	T -
Ma	2	10	10	2.488	2,301	OK
Zr	160	115	210	183,048	10.585	OK
Sr	231	180	300	208.751	8.748	OK .
Rb	96	60	115	74,47	5,62	OK
Pb	18.9	0	35	5.703	9.122	OK
5e	1.57	-30	30	4.06	5.11	ОK
As	17,7	0	35	18.43	7.39	OK
Hg	14	-10	10	8.6	9.5	OK
Zn	106	50	160	77,12		OK
Cu	34.6	0	60	42,85		OX
NI	88	25	150	98,41		OK
Co	13.4	-250	250	130 63		OK -
Fe	35000	25000	35000	26601.057		ok
Mn	538	0	700	614.1		OK -
Cr	130	50	200	191 195	173.878	

RCRA	Certified*	Low	High	Measured	Ēπ	$\overline{}$
Mo	NA T			100000	1 20	ОК
Zr_	NA NA		1	· · · · · · ·	+	Öκ
Sr	NA .			<del> </del>	<del></del>	OK
Rb	NA NA		1-	<del>                                     </del>	<del></del>	OK
Pb	500	350	600	469,947	34.443	lok -
Se	500	400	600	515.261	22.438	ÖK
As	500	300	600	441.657	30,442	OK
Hg	NA NA		<del>                                     </del>	1171007	30.742	ŎK
Žn	NA			<del></del>		OK
Cu	NA NA					OK
Ni Ni	NA		<del>                                     </del>		<del> </del>	ОК
Co	NA .		<del> </del>		<del></del>	OK
Fe	NA NA					ОК
Mn	NA NA					ok .
Cr	500	275	600	461.544	241 123	OK

Tres certificate is issued in securdance with Thermo Paher Scientific factory specifications.
The measurements were found to be within specification limits at the time of service and calibration.

James Collen

Standards are imposable to National Institute of Standards & Technology (NIST) standards \*\* - Not Certified

Thermo Pisher Scientific Niton Analyzers

800 Middlesex Tumpike Building 8 Billurica, MA 01821

44 w heems somethis +1-800-875 1575



The world leader in serving science

### Certificate of Calibration

Thin Film QC (Service) Revision: A Revision Date: Sept. 24, 2008

Unit #: 10713 Model: XLp 703A Date: 4/15/2011 Software: 5.2D-Dual

Thin Film QC Sheet (1 reading at 30 seconds each sample)

Element:	Cert:	Read:	Error	OK?
Pb	51.7	54.47	2.74	ок
As	24.6	24.7	0.92	ОК
Ni	40.4	42.72	2.21	OK
Cr	42.6	44,49	3.69	ОК

37mm QC Readings (3 readings at 30 seconds each)

Element:	Cert:	Read:		OK?
Pb	42	39.79	9.05	OK

Dust Wipe QC Readings (Pb only) (4 readings at 30 seconds each)

Wipe Type:	Cert:	Read:	Error	OK?
Blank:	N/A	0.91	1.61	OK
Dust Low:	34-51	43.12	10.1	OK
DustHigh:	356-534	480.8	38.5	OK

This certificate is issued in accordance with Thermo Fisher Scientific factory specifications. The measurements were found to be within specification limits at the time of manufacture and calibration.

\*\* - Not Certified

Signed:

800 Middlesex Turnpike Building 8 Billerica, MA 01821

### SURVEY FOR LEAD IN SETTLED DUST

NATIONAL GUARD ARMORY 700 WEST 5<sup>TH</sup> AVENUE BRISTOW, OKLAHOMA 74010

GMR Project Number 2012017 March 16, 2012

Oklahoma Department of Environmental Quality
Land Protection Division
P. O. Box 1677
Oklahoma City, OK 73101-1677
Attention: Dustin Davidson

GMR & Associates, Inc.

ENGINEERS, PLANNERS, ENVIRONMENTAL SPECIALISTS, HYDROGEOLOGISTS

2520 West I-44 Service Road, Suite 200 P.O. Box 57827

Oklahoma City, OK 73157-7827

Telephone: 405-528-7017

Fax: 405-528-3346

Prepared by:

Arless E. Murray, Jr.

President

LBP Inspector, OKRASR13458

a. E. Murrey fr

Reviewed by:

James M. Reis Vice President Project Manager

### **TABLE OF CONTENTS**

1.0	EXECUTIVE SUMMARY	1
2.0	INTRODUCTION	1
3.0	BUILDING DESCRIPTION	1
4.0	METHODOLOGY	2
5.0	FINDING SUMMARY OF LEAD IN SETTLED DUST	2
6.0	RECOMMENDATIONS	2

Tables
Table 1 Positive Dust Wipe Locations

### **Appendices**

Appendix A Inspector Certification

Appendix B Site Layout with Sample Locations

Appendix C Laboratory Results and Chain of Custody Field Sheets

### SURVEY FOR LEAD IN SETTLED DUST BRISTOW NATIONAL GUARD ARMORY 700 W. 5<sup>th</sup> Street BRISTOW, OKLAHOMA

### 1.0 EXECUTIVE SUMMARY

GMR & Associates, Inc. (GMR) has completed a Survey for Lead in Settled Dust (Survey) at the Bristow National Guard Armory, 700 W. 5<sup>th</sup> Street, Bristow, Oklahoma. The Survey was conducted on February 22, 2012 by Mr. Arless Murray of GMR.

The Survey included the collection of dust wipe samples from the floor in each room and from window sills located along the north, east and west sides of the building. The samples were collected using EPA/HUD wipe sampling protocols.

The laboratory analytical results of the floor and sill samples obtained at the armory were compared to EPA/HUD criteria. The EPA/HUD recommended maximum concentration for lead in settled dust is 40 micrograms per square foot ( $\mu g/ft^2$ ) for floors and 250  $\mu g/ft^2$  for window sills.

The results of the wipe samples collected from the floors and window sills revealed the following:

- Lead concentrations in settled dust in excess of 40  $\mu g/ft^2$  were present on the floor in Rooms 1, 15, 16,17 and 18; and
- Lead concentrations in settled dust in excess of 250  $\mu$ g/ft<sup>2</sup> were present on the window sills in Rooms 8 and 15.

### 2.0 INTRODUCTION

On February 22, 2012, GMR personnel performed a Survey for Lead in Settled Dust (Survey) at the Bristow National Guard Armory, 700 W. 5<sup>th</sup> Street, Bristow, Oklahoma. The purpose of the Survey was to identify the locations of lead contaminated dust in the Armory. The Survey was conducted by Mr. Arless Murray of GMR. The Lead-Based Risk Assessor Certifications is provided in Appendix A. A Site Layout Map of the building showing room numbers and sampling locations is included in Appendix B.

### 3.0 BUILDING DESCRIPTION

Constructed in the 1954, the Bristow Armory building has a total area of 11,216 square feet and is comprised of one floor constructed over a concrete slab. The building consists of a large central garage/drill area, with offices, bathrooms and workrooms/supply areas located around the garage/drill area on the north, east and west.



### 4.0 METHODOLOGY

One (1) dust wipe sample was obtained in each room, except for the drill room, where three (3) samples were obtained. A template measuring one square foot was used to provide a known sampling area for collection of floor samples. A measure taped-off area was used for collection of sill samples. Sample BR-17-02 shown in the laboratory report is a field blank, and not a representative dust sample from a floor or sill. A total of 24 samples were collected including one field blank.

The laboratory analytical results of the floor and sill samples obtained at the armory were compared to EPA/HUD criteria. The EPA/HUD recommended maximum concentration for lead in settled dust is 40 micrograms per square foot ( $\mu g/ft^2$ ) for floors and 250  $\mu g/ft^2$  for window sills.

### 5.0 FINDING SUMMARY OF LEAD IN SETTLED DUST

Laboratory results from the dust wipe samples are presented in Appendix C. Floor and sill samples having lead levels greater than EPA/HUD recommended maximum concentrations are shown in Table 1 below. A layout of the building is presented in Appendix B.

Table 1
Positive Dust Wipe Locations

	1 OSITIVE DUST VI	The Locations	
Sample No.	Lead Content (µg/ft²)	Location	Approx. Sq. Footage of Location
BR-01-01	51.4	Room 1 - Floor	168
BR-08-02	305	Room 8 - Sill	2
BR-15-02	370	Room 15 - Sill	2
BR-15-01	78.9	Room 15 - Floor	435
BR-16-01	53.0	Room 16 - Floor	493
BR-17-01	140	Room 17 - Floor	668
BR-18-03	68.5	Room 18 - Floor	4,845

### 6.0 RECOMMENDATIONS

The floor and window sills that had elevated levels of lead in the settled dust should be cleaned using the following procedure:

- HEPA vacuum the entire floor area and the window sills if applicable;
- Wet clean the entire floor area and the window sills if applicable;
- HEPA vacuum the entire floor area and the window sills if applicable; and
- Perform dust wipe sampling to assure that all lead contaminated dust has been reduced to acceptable levels.

P:\2012017.001 DCS-Asbestos-LBP Inspect.-6 Armories-OK\Bristow\2012017-Bristow Armory- Lead in Settled Dust Survey Report.doc



### Appendix A

**Certifications** 

# Department of Environmental Quality

Property las

# GMR & ASSOCIATES INC

the as in profession of the Ordens bear bear from the second of the American States of the States of

Certification #: OKFIRM13456

the or little or that bour bouten content to be spine as presented to line

Issued on: 4/1/2011

Expires on: 3/31/2012

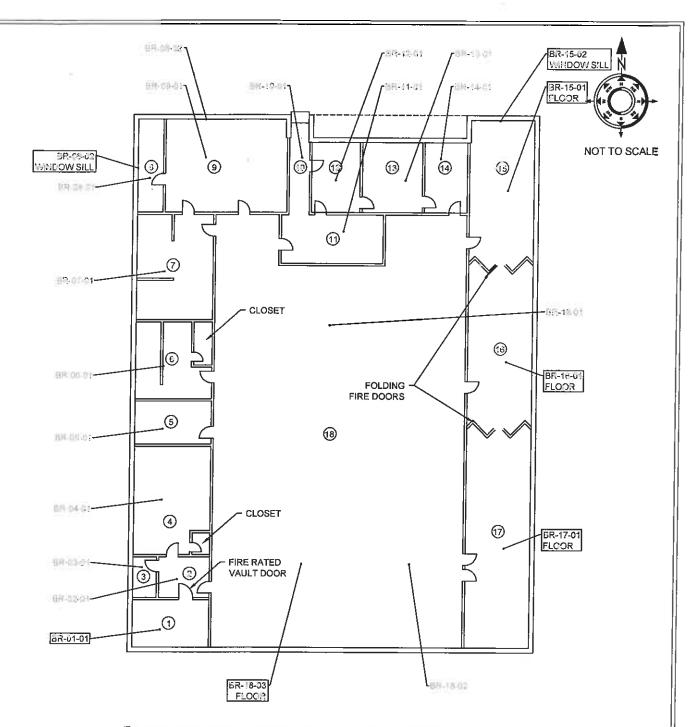
Division Director Air Quality Division



Environmental Programs Manager Air Quality Division

### Appendix B

**Site Layout with Sample Locations** 



DENOTES ROOM NUMBERS DEVELOPED FOR SURVEY

OK### FLOOR SAMPLES WITH GREATER THAN OR EQUAL TO 40 µg/ft2

FLOOR SAMPLES WITH LESS THAN 40 µg/ft2

○K-### SILL SAMPLES WITH GREATER THAN OR EQUAL TO 250 µg/ft²

OK ### SILL SAMPLES WITH LESS THAN 250 µg/ft2



Figure 1
Dust Sampling Locations
Bristow Armory
700 W. 5th Avenue
Bristow, Oklahoma 74010

### Appendix C

**Laboratory Results and Chain of Custody Field Sheets** 



### **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

204790

Date Received:

02/24/12

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

2/27/2012

AIHA ID: 101352

Client:

GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Acet. No.:

B216

Project:

**Bristow Armory** 

Location:

700 W. 5th St., Bristow, OK

Project No.: 2012017-001

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	BR-01-01	Wipe	Lead	51.4	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
002	BR-02-01	Wipe	Lead	22.6	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
003	BR-03-01	Wipe	Lead	39 3	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
004	BR-04-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	02/27/12 13:00	W FPA 7420 (1)
005	BR-05-01	Wipe	Lead	194	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
006	BR-06-01	Wipe	Lead	31.1	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
007	BR-07-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
800	BR-08-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
009	BR-09-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
010	BR-10-01	Wipe	Lead	<160	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
011	BR-11-01	Wipe	Lead	<16.0	16	ug/sq Ft	02/27/12 13:00	W EPA 7420 (1)
012	BR-12-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
013	BR-08-02	Wipe	Lead	305	64	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
014	BR-09-02	Wipe	Lead	<64 0	64	ug/sq. Ft.	02/27/12 13:90	W EPA 7420 (1)
015	BR-15-02	Wipe	Lead	370	64	ug/sq. Ft.	02/27/12 13:00	W EFA 7420 (1)
016	BR-15-01	Wipe	Lead	78.9	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
017	BR-16-01	Wipe	Lead	53.0	16	ug/sq. Ft.	02/27/12 13:00	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 Preperation Modified. EPA 7082 Analysis Modified



### **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

204790

Date Received:

02/24/12

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

RS

Date of Report:

2:27/2012

AlHA ID: 101352

Client:

GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Acct. No.:

B216

Project:

Bristow Aimory

Location:

700 W. 5th St., Bristow, OK

Project No.:

2012017-001

QuanTEM					Reporting		Date/Time	
, ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
018	BR-13-01	Wipe	Lead	<16.0	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
019	BR-14-01	Wipe	Lead	<16.0	16	ug/sq Ft.	02/27/12 13:00	W EPA 7420 (1)
020	BR-17-01	Wipe	Lead	140	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
021	BR-17-02	Wipe	Lead	<16.0	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
022	BR-18-01	Wipe	Lead	36.4	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
023	BR-18-02	Wipe	Lead	20.6	16	ug/sq. Ft.	02/27/12 13:00	W EPA 7420 (1)
024	BR-18-03	Wipe	Lead	68.5	16	ug/sq Ft.	02/27/12 13:00	W EPA 7420 (1)

Authorized Signature:

Rebecca Sparks, Analysi

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.

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

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

### Supplemental Report QAQC Results

QA ID: Test: 9717

Lead

Date:

2/27/2012

Matrix: Wipe

Lab Number:

204790

Approved By: Rebecca Sparks

Date Approved: 2/27/2012

Notes:

### Blank Data:

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

### Standards Data:

Standar d	Low Limit	Obtained	High Limit
CCV	4.5	4.6	5,5
FCV	4.5	4.6	5.5
ICV	0.9	1.1	1.1
RLVS	0.256	0.312	0.384

### Duplicate Data:

Recovery Data:

Sample Number	Result	Spike Level	Result + Spike	% Recovery	Dup. Result + Spike	% Dup. Recovery	% Spike RPD
MS-W3	0 000	5.416	5.087	93.9	5 472i	101 0	7.3
MS-W2	0.000	5 492	5.623	102.4	5.152;	93.8	8.7
MS-W1	0 000	5.525	5.333	96.5	4 958	89.7	.7.3

Authorized Signature:

Rebecca Sparks, Analyst



## **LEAD CHAIN OF CUSTODY**

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

Jity, OK 73120-7502	Fax: (405) 755-2058

Page 1 of 2

For Lab Use Cnly

Report Results (区 one box) Reject QuanTEM Website DATE & TIME - CINCIC Accept Other RECEIVED BY Project Information Legal Document - please print legibly Project Name: Bristow Cell Phone: 765 -44-2553 | Project Location. Email it is in terring and in city, Project 10: VIA V Phone: 25-7017 08/2/80 DATE & TIME いっているの Contact Information Victoria Marray Name / v-/ess RELINQUISHED BY S.S. Olyt Sampled By Company: Account #: Contact

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_	BK-07-01	7 8K-07-01 K-7- Floor-Conc		1,	·J	7			1	-	_	
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=	5/4-11-01	5 K-11-01 K-11-F1605- Tile		1 1	Ü	7			7	-	<u> </u>	3-Day
2	FF-12-01	12 KF-12-01 Km12- Floor- Tile			د	7		-	7		2	5 - Dav

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 "Field for Saturday Pickup"



### LEAD CHAIN OF CUSTODY

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502 (500) 822-1650 • (405) 755-7272 • Fax: (405) 755-2058

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Lab No. Ct P

Page 2 of

Pro	Project Information											
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### **SCOPES OF WORK**

### STATEMENT OF WORK

### For

### Remediation of Lead and Asbestos Contamination at The Former Bristow 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 Bristow, 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 mandatory site visit and walk through will be held at the site to give a better understanding of the project. A floor plan map of the Bristow Armory is attached for review (Attachment 1).

The building is located at 700 West 5<sup>th</sup> Avenue, Bristow, Oklahoma 74010. The building will have available water and electricity to use during remediation.

### **SPECIAL PROVISIONS:**

- 1. Work Schedule: The contractor shall schedule all work to be completed within 90 calendar days after date of the written "Notice to Proceed." Coordination of work shall be scheduled with DEQ.
  - a. A pre-construction meeting shall be held at the site after the Notice to Proceed date to review Statement 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. <u>Conditions of Work:</u> 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. If damage is caused to these items, 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 site walk throughs;
- Possess a current lead-based paint firm license and have a certified lead-based paint supervisor in order to perform lead-based paint abatement;
- Possess 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 leadbased paint abatement, and lead dust remediation;

### Submit With Cost Estimate and Work Plan:

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

### **Submit After Contract Award:**

A work 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 DEQ 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.

### NON-FRIABLE 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 Bristow
  Armory Asbestos Inspection Report with floor plan map showing locations of ACM
  (Attachment 2).
  - o Remove floor tile from rooms 12, 13, and 14.
    - o A total of 500 ft<sup>2</sup> of floor tile shall be removed.
  - o Remove the transite soffit paneling under the entrance overhang
    - o A total of 250 ft<sup>2</sup> of transite soffit paneling shall be removed.
    - o Transite panels shall be replaced with like material (white fiber cement panel siding). Installation of new panels shall meet or exceed the quality of the existing panels. All joints must be flush and sealed with exterior caulk.
- Friable ACM shall be removed as described in the attached Asbestos Abatement Project Design (Attachment 2). For more details see the attached Bristow Armory Asbestos Inspection Report with floor plan map showing locations of ACM (Attachment 2).
  - Remove approximately 400 lineal feet of asbestos-containing thermal pipe insulation.
  - o Remove approximately 30 asbestos-containing thermal pipe insulation fittings.
  - All pipes with asbestos containing pipe insulation and pipe fittings removed shall be re-insulated with appropriate size of polyethylene foam pipe insulation or equivalent.
- Once Asbestos Abatement is complete, DEQ 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);
  - o The metal pipe in Room 6
  - o All 26 metal window headers above windows in the drill floor (Room 18)
- Deteriorated paint removed from building surface will be properly disposed.

### 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.
- If Contractor uses a paint stripper that exhibits a characteristic of hazardous waste, or contains hazardous waste constituents, it is the contractor's responsibility to characterize this waste under 40 CFR 262.11 and if it is determined to be hazardous waste, disposing of them as such. The final Report shall contain all relevant information regarding the wasted determination.
- 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)

### **Sequence of Events**

The initial cleaning of the building shall be as follows:

- 1. First Phase
  - a. The Drill Room Floor shall be cleaned
    - i. Once the First Phase is complete, there will be a one to two week delay before starting the Second Phase.
- 2. Second Phase
  - a. All floors of the remaining building shall be cleaned

### 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.
- HEPA vacuum and wet wash all interior and exterior window sills.
  - o 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).
  - o 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;
  - o Remove dust from all equipment, shelving, trash, etc, and remove these items from room before remediation begins;
  - o Remove dust from all carpet, remove all carpet from rooms, and dispose of all carpet as non-hazardous waste before lead dust remediation of floor begins;
  - o Dispose any materials, determined by the DEQ to be trash, as non-hazardous waste:
  - o 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.

### 2. 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;

### 3. 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 or DEQ consultant.
- DEQ or DEQ contractor will be responsible for taking all post remediation samples.
- DEQ shall be notified five (5) days prior to each sampling event.

• Contact Information: DEC

Contact: Brittany Downs Phone: (405) 702-5112

- 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 is complete.

### FINAL REPORT

- Write final report and submit to DEQ;
- Final report shall include:
  - o A detailed summary of work including any warranties and data;
  - O Copy of post remediation sampling report;
  - o Waste manifests (if any); and
  - o Photo documentation of work
    - Photo documentation of work will have color digital photos with captions describing photo;
- Final report will be submitted in hard copy and electronically on disc.

### **OWNER REPRESTATIVE**

Owner's Representative:

**Brittany Downs** 

Oklahoma Department of Environmental Quality

Land Protection Division

707 N. Robinson P.O. Box 1677

Oklahoma City, OK 73101-1677

Phone Numbers:

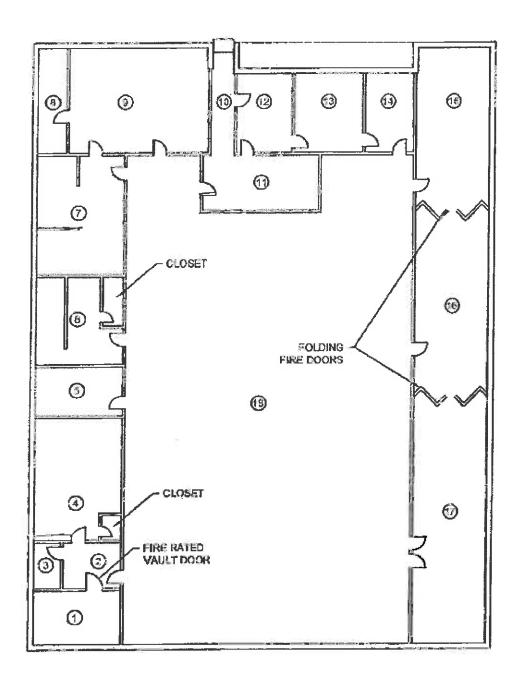
(405) 702-5112 (Office) (405) 702-5101 (Fax)

E-Mail: brittany.downs@deq.ok.gov

### **ATTACHMENT 1**

**Bristow Armory Floor Plan Map** 

### **Bristow Armory Floor Plan Map**



### **ATTACHMENT 2**

Bristow Armory Asbestos Inspection Report And Bristow Armory Asbestos Project Design



**Engineering and Environmental Consultants** 

### PROJECT DESIGN For ASBESTOS ABATEMENT

BRISTOW ARMORY 700 WEST 5<sup>TH</sup> AVENUE BRISTOW, OKLAHOMA 74010

### **AUGUST 2013**

Brian.Stanila@deq.ok.gov

Corporate Heudquarters
2520 West I-44 Service Road, Suite 200
Oklahoma City, OK 73112
Telephone: 405-528-7017
Fux: 405-528-3346

### Introduction

This Project Design was prepared for compliance with existing statutes and regulations governing the removal and disposal of asbestos-containing materials in facilities accessible to the public within the State of Oklahoma. It is designed to provide a prudent course of action for handling of asbestos in the best interests of the facility owner, building occupants and the general public.

### 1. Statement that DOL Abatement of Friable Asbestos Materials Rules Apply

This Project Design intends that the abatement be performed in compliance with the following state and federal regulations:

Asbestos Statutes and Abatement of Friable Asbestos Materials Rules (OAC 380:50) State of Oklahoma Department of Labor, Asbestos Division

Project Name: Bristow Armory, Bristow, Oklahoma

Occupancy: The building will be unoccupied during abatement

Project Type: Removal of pipe insulation and fittings

Abatement Contractor: To be Determined

Owner: City of Bristow, Oklahoma

Owner's Representative: GMR & Associates, Inc.

### Regulatory Compliance

This Project Design intends that the abatement be performed in compliance with the following state and federal regulations:

Asbestos Statutes and Abatement of Friable Asbestos Materials Rules (OAC 380:50) State of Oklahoma Department of Labor, Asbestos Division

CFR 1910, General Industry Standards, latest edition, except for Section 1001(c) and (d)

CFR 1926, Construction Industry Standards, latest edition, except for Section 1100(c)(1) and (2)

CFR part 61, NESHAPS, latest edition

ANSI Z88.2, latest edition

Asbestos Hazard Emergency Response Act and 40 CFR Chapter I, Subchapter R, Part 763, Subpart E

American Conference of Governmental Industrial Hygienists' (ACGIH) Adopted Threshold Limit Value for Heat Stress

### 2. Work Sequencing and Phasing

The work will be performed in one phase.

- \*Sequence in each task shall be as follows:
- 1. Establish decontamination and load-out unit
- 2. Install critical barriers over openings
- 3. Establish emergency exits
- 4. Prep of the work areas
- 5. DOL prep inspection
- 6. Removal of ACM material
- 7. Lock-down
- 8. DOL visual inspection
- 9. Clearance monitoring
- 10. Tear down remaining containment except for critical barriers
- 11. DOL final inspection (the load-out trailer will be available at final inspection).

### 3. Means of Egress and Fire Protection

Primary emergency exits for work will be through the decontamination unit and the load out unit. The exit paths are shown on the Abatement Plan.

The fire protection plan includes two emergency exits:

- 1. Through the decontamination unit,
- 2. Through the load out unit as shown on the drawing.

Fire Extinguishers-The Abatement Contractor will provide Type 10 dry-charged ammonium phosphate fire extinguishers (10 lb) for the work area. The fire extinguishers will have a valid inspection tag and be decontaminated upon removal from the work area. A sufficient number of extinguishers will be provided to insure that all workers are within 75 feet of an extinguisher. An additional extinguisher will be provided exterior to the work area.

Battery powered emergency lighting will be provided at each emergency exit.

### 4. Quantity, type and location of asbestos materials to be abated

400 linear feet of ACM lines (40-45% chrysotile) and 30 fittings (65-70% chrysotile) exposed in Rooms 6,7,15,17, 18, and closet east of Room 6.

- \* Asbestos removal procedures per OAC 380:50-13 with glove-bag using wet methods.
- \*The number of glove-bags is estimated at 125.

### 5. Numbers of air monitoring pumps.

Five area pumps will be provided at the following locations:

- 1. Two inside the work area.
- 2. One outside the de-con unit
- 3. One outside the load-out.
- 4. One at the trailer during load-out.
- 5. One placed at the discretion of DOL
- \*Personnel pumps on the following:
  - 1. Minimum of 2 workers and/or 25% of the workers in each work area.
- \*Clearance Monitoring:
  - 1. In accordance with 40 OAC 380:50-11-2.

### 6. Numbers and locations of clean test samples and type of analysis

\*Five PCM clearance samples will be taken in each glove-bag work area, in accordance with 40 OAC 380:50-11-2.

### 7. Numbers, capacities, location and discharge points of negative air machines

A negative pressure containment will not be required during glove-bag removal of ACM pipe insulation and fittings. However, negative air pressure must be maintained in each govlebag during asbestos removal. One (1) negative air machine having a capacity of 1,500 cfm shall be required to maintain a negative pressure through the decontamination unit.

### 8. Details of project containment (s)

Entry into and exit from the containments shall be through the decontamination unit.

All critical barriers shall be prepped with 6-mil poly and all holes sealed with poly or foam.

Power shall be supplied from a source in the building as designated by the City of Bristow. A GFCI board or GFCIs shall be supplied to protect power inside the containment. Electrical passing through the work area will be locked-out and tagged.

### 9. Details of decontamination system (s)

An attached decontamination facility per OAC 380:50-15-12 is planned for this work. The decontamination unit will consist of three chambers, a clean room, a shower and a dirty room. The airlocks for the decontamination unit will consist of triple 6 mil polyethylene overlapping flaps. The shower shall be equipped with a 5-micron waste water filter and 10-micron waste water pre-filter, liquid cleaning agent, non-porous shower grates and a functioning in-line water heater with capacity for 5 gallons per worker. Disposal of wastewater will be into the sanitary sewer. The specific locations will be determined during prep.

10. Soil Sampling
\*No soils are involved.

11. Special Materials/Methods Required
\*No special materials or methods are required.

12. Variances from the Rules
\*No variances from the Rules are required at this time.

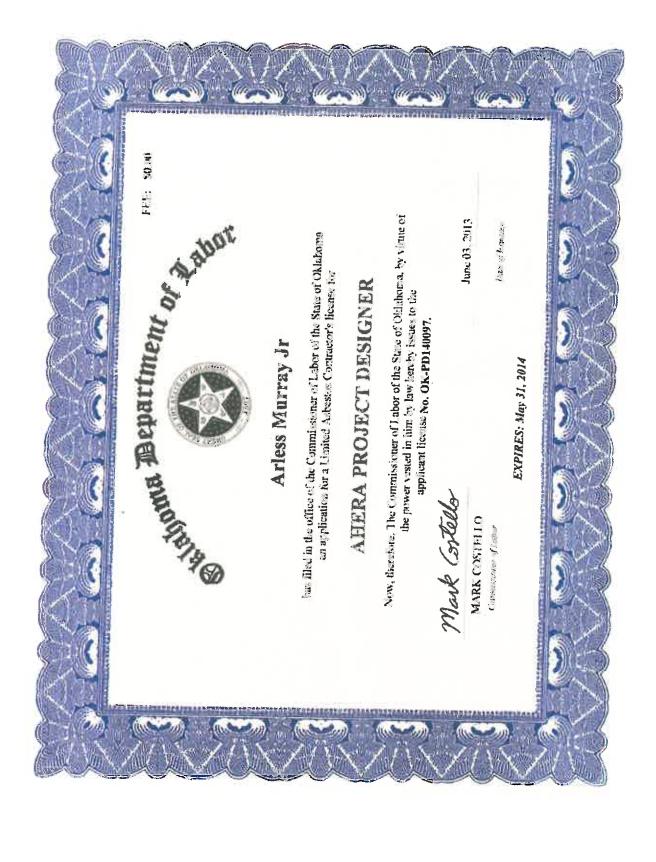
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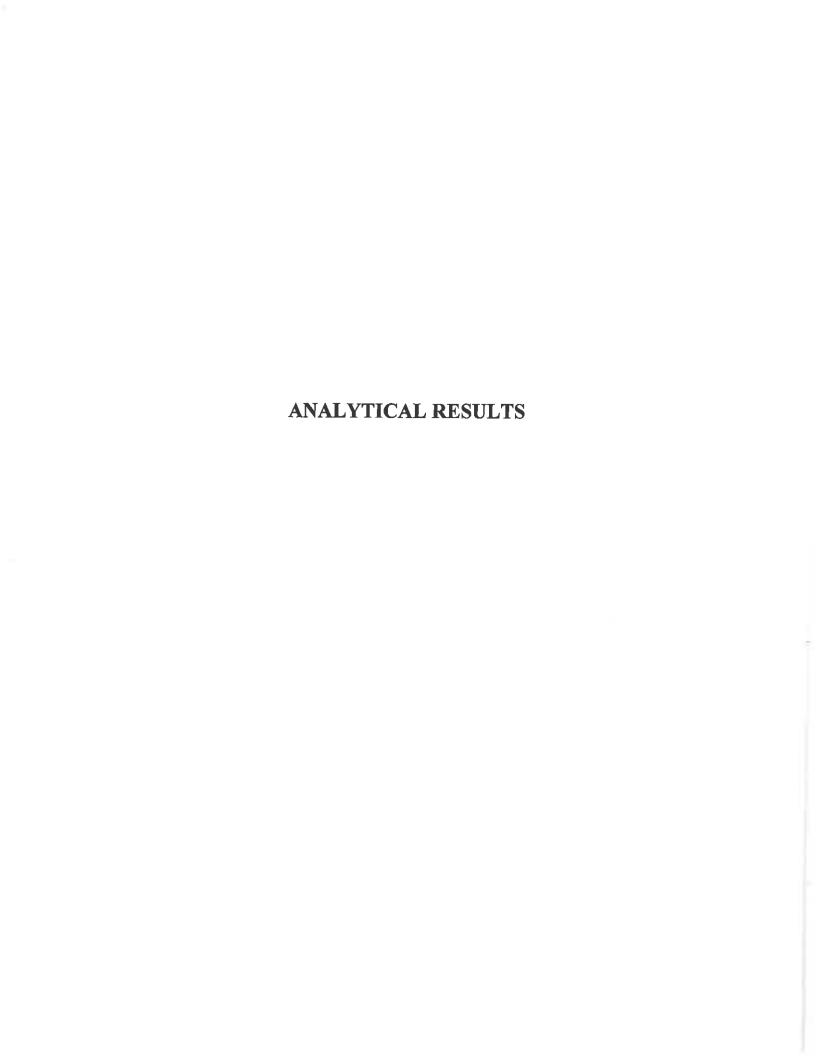
### **CERTIFICATION**

This Project Design was prepared in accordance with OAC 380:50 and the Project Design Checklist issued by the Oklahoma Department of Labor.

Arless Murray

Date 08/19/2013 OKPD-140097







GMR & Associates, Inc. PO Box 57827 Oklahoma City, OK 73157

Re: QuanTEM ID 204756

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. Click on Service Survey and fill out the form. We look forward to hearing from you.

Respectfully, QuanTEM Laboratories, LLC.







### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 204756

Account Number:

B216

Date Received:

02/23/2012

Received By:

Leigh Armstrong

Date Analyzed:

02/29/2012

Analyzed By: Methodology: Stacey Holder

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

			<b>J</b>			
QuanTEM Sample ID		Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	BA-01A	Homogeneous	Tan Floor Tile	Asbestos Not Present	Cellulose <1	Vinyl CeCO3
					<sup>O</sup> H	
002	BA-02A	Homogeneous	Yellow Mastic	Asbestos Not Present	Cellulose <1	Glue
003	BA-03A	Homogeneous	Tan Floor Tile	Asbestos Not Present	Cellulose <1	Vinyl CaCO3
550		Na ER				
004	BA-04A	Layered	Yellow Mastic	Asbestos Not Present	Cellulose <1	Glue
94			Avangun	· ·		
004a	e la	Layered	Gray Floor Tile	Asbestos Present Chrysotile 8	Cellulose <1	Vinyl CeCO3
		20	18			
005	BA-05A	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose <1	Binder
				. 4	22	10
006	<b>BA-06A</b>	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose <1	Binder

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

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02/29/2012

Stacey Holder

Analyzed By: Methodology:

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

								- 6		*
	QuanTEM Sample ID	(/2	Client Sample ID	Composition	Color / Description	Asbestos (%)		Non-Asbestos Fiber (%)	3	Non Fibrous
	007	0 =	BA-07A	Homogeneous	Tan Panel	Asbestos Not Present		Cellulose	20	Gypsum
1	008	,	BA-07B	Homogeneous	Tan	Asbestos Not Present		Cellulose	20	Gypsum
	* 6			N 115	Panel					
	009		BA-07C	Homogeneous	Tan	Asbestos Not Present		Cellulose	15	Gypsum
i				17	Panel					
	20	30			% .	7.0				
	010	. :	BA-07D	Homogeneous	Tan	Asbestos Not Present		Cellulose	15	Gypsum
				1)	Panel	ju,	T.			
				# 0 T		** a = a		9		ří
	011		BA-07E	Homogeneous	Tan	Asbestos Not Present		Cellulose	20	Gypsum
					Panel	* H		2		or .
53	012		BA-08A	Homogeneous	White	Asbestos Not Present		Cellulose	20	Gypsum
				1 1 9	Sheetrock				20	Сурзаш
				ä		2.0				
	013		BA-08B	Layered	White	Asbestos Not Present		Cellulose	<1	CaCO3
			V	Sc 20	Texture			· <del>-</del>	-	Paint

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

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### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 204756

**B**216

Date Received:

Account Number:

02/23/2012

Received By:

Leigh Armstrong

Date Analyzed: Analyzed By:

Methodology:

02/29/2012

Stacey Holder

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

QuanTEM Sample ID			Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
	013a			Layered	White Sheetrock	Asbestos Not Present	Cellulose 15	Gypsum
			8.5					
	22.0		**	85 800	7. 2			
	014		BA-08C	Layered	White Texture	Asbestos Not Present	Cellulose <1	CaCO3 Paint
	1						ř.	
	014a			Layered	White Sheetrock	Asbestos Not Present	Cellulose 15	Gypsum
					Specifock		787	
			4	E			15	
	015	30 6 9	BA-09A	Homogeneous	Gray/Black Window Glazing	Asbestos Not Present	Celiulose <1	CaCO3 Binder
					30			
16	016		BA-10A	Homogeneous	Gray/Black	Asbestos Not Present	Cellulose 15	CaCO3
		×			Window Glazing	23.		Binder
			2			1), G:		
	017		BA-11A	Homogeneous	White	Asbestos Not Present	Cellulose 15	Gypsum
				6	Sheetrock	55 00 85		
							19	
	018		В́А-11В	Homogeneous	White	Asbestos Not Present	Cellulose 20	Gypsum
			5 9		Sheetrock		2 <sup>14</sup>	

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

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### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 204756

Account Number:

B216

Date Received:

02/23/2012

Received By:

Methodology:

Leigh Armstrong

Date Analyzed:

02/29/2012

Analyzed By:

Stacey Holder

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

QuanTEM Client Non Fibrous Non-Asbestos Sample ID Sample ID Composition Description Asbestos (%) Fiber (%) 019 **BA-11C** White Homogeneous Asbestos Not Present Cellulose Gypsum. Sheetrock 020 BA-12A Layered White Asbestos Not Present Cellulose CaCO3 Joint Compound 020a Layered Cream Asbestos Not Present Cellulose Binder Tape 021 BA-12B Layered White Asbestos Not Present Cellulose <1 CaCO3 Joint Compound 021a Layered Asbestos Not Present Cream Cellulose Binder Tape 022 **BA-12C** Layered White Asbestos Not Present Cellulose 2 CaCO3 Joint Compound 022a Layered Cream Asbestos Not Present Cellulose 65 Binder Tape .

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Received By:

Leigh Armstrong

Date Analyzed:

Methodology:

02/29/2012

Analyzed By:

EPA/600/R-93/116

Stacey Holder

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

					C1.		
QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)		Non Fibrous
023	BA-13A	Homogeneous	White Window Glazing	Asbestos Not Present	Cellulose	<1	Binder
8.9				14			
024	BA-14A	Homogeneous	Gray Insulation	Asbestos Not Present	Cellulose	<1	CaCO3 Vermiculite
025	BA-15A	Homogeneous	Cream Insulation	Asbestos Not Present	Cellulose	65	Binder
026	BA-16A	Homogeneous	Silver/Black Gasket	Asbestos Not Present	Cellulose	8	Binder
100				12			
027	BA-17A	Layered	Black/Beige Pipe Wrap	Asbestos Present Chrysotile . 45	Celluloșe	10	Binder
007.		71			*	_	
027a	16	Layered	Brown Pipe Wrap	Asbestos Not Present	Cellulose	25	Binder
a a			2	W N N			
028	BA-17B	Layered	Black/Beige Pipe Wrap	Asbestos Present Chrysotile 45	Cellulose	8	Binder

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QuanTEM Lab No. 204756

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B216

Date Received:

02/23/2012

Received By:

Leigh Armstrong

Date Analyzed:

02/29/2012

Analyzed By: Methodology: Stacey Holder

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

					0		
0	QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
	028a		Layered	Brown	Asbestos Not Present	Cellulose 15	Binder
				Pipe Wrap			
			19			42	
	029	BA-17C	Layered	Black/Beige	Asbestos Present Chrysotile 45	Cellulose 5	Binder
				Pipe Wrap	Cmysome 45		
		383				23,	7/
	029a		Layered	Brown	Asbestos Not Present	Cellulose 60	Binder
				Pipe Wrap			
		1					227
	030	BA-17D	Layered	Black/Beige	Asbestos Present	Cellulose 10	Binder
	0.5	-	8.0	Pipe Wrap	Chrysotile 40	16 - 6	64
					5 (v) E	\$4.00 	
	030a		Layered	Brown	Asbestos Not Present	Cellulose 60	Binder
		100	55	Pipe Wrap		15	
				0		×	
	031	BA-17E	Layered	Brown/White	Asbestos Present	Cellulose 10	Binder
	10		20. **	Pipe Wrap	. Chrysotile 45	e,	
	11		2/5	12			
	031a		Layered	White	Asbestos Not Present	Cellulose 60	Binder
		10 10		Pipe Wrap			

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

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### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 204756

Account Number:

B216

Date Received:

02/23/2012

Received By:

Leigh Armstrong

Date Analyzed: Analyzed By:

Methodology:

02/29/2012

Stacey Holder

EPA/600/R-93/116

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)		Non-Asbestos Fiber (%)		Non Fibrous
032	BA-18A	Layered	Cream Pipe Wrap	Asbestos Present Chrysotile	5	Cellulose	65	Binder
	-	No. in the con-						
032 <u>a</u>		Layered	Light Gray Pipe Fitting	Asbestos Present Chrysotile	65	NA		Binder
			#		56			
033	BA-18B	Layered.	Beige Pipe Wrap	Asbestos Present Chrysotile	35	Cellulose	25	Binder
			3+	S				
033a		Layered	Light Gray	Asbestos Present	<b>60</b>	ÑА		Binder
			Pipe Fitting	Chrysotile	60	0		
	T. 100	11 18"	5 00 7					0
034	BA-18C	Homogeneous	Light Gray Pipe Fitting	Asbestos Present Chrysotile	70	Cellulose	2	Binder
		g 25 g	9					
035	BA-18D	Homogeneous	Light Gray	Asbestos Present		Cellulose	2	Binder
	35	31	Pipe Fitting	Chrysotile	65			22
036	BA-18E	Homogeneous	Brown/White	Asbestos Present		Cellulose	2	Binder
19		~	Pipe Fitting	Chrysotile	70	***************************************	166	

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

QuanTEM is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



### Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 204756

Account Number:

B216

Date Received:

02/23/2012

Received By: Date Analyzed: Leigh Armstrong

Analyzed By:

02/29/2012

Stacey Holder

EPA/600/R-93/116

Project: Bristow Armory

Project Location: 700 W 5th, Bristow, OK

Project Number: N/A

QuanTEM Sample ID

Methodology:

Client

Composition

Color / Description

Asbestos (%)

Asbestos Not Present

Non-Asbestos Fiber (%)

Client: GMR & Associates, Inc.

PO Box 57827

Oklahoma City, OK 73157

Non Fibrous

037

Sample ID

**BA-19A** 

Layered

White Roofing

Synthetic

Binder

037a

Layered

Black Tar

Asbestos Not Present

Cellulose

Tar

75

038

Gray

Asbestos Present

NA

BA-20A

Homogeneous

Transite

Chrysotile

20

Binder

3/1/2012 Date of Report



Account #: Contact Company:

> Mike GMA

MAjors

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2000

(Suo

# **ASBESTOS CHAIN OF CUSTODY**

Page 1 of 3  b No. 204756  Cassel Page 1  QuanTEM Website  Other
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Same Day	BUK- Quantitative [weight%]- Chatfield		AL ROOM	er	Caner	1000 Point Count	1000
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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 Pichup"



# **ASBESTOS CHAIN OF CUSTODY**

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

LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Page 2 of 3

Accept

Reject

Company:		11 BA-	12 BA-	13 BB-	14 BA	15 <i>BA</i>	16 84	17 BA	18 BA-	19. 84	20 1819-	21 687.	22 69.	23 BA-	24 BA.	25 64 -	26 BA.	27 BA-	28 BA	29 BA-	30 BA 17
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# **ASBESTOS CHAIN OF CUSTODY**

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

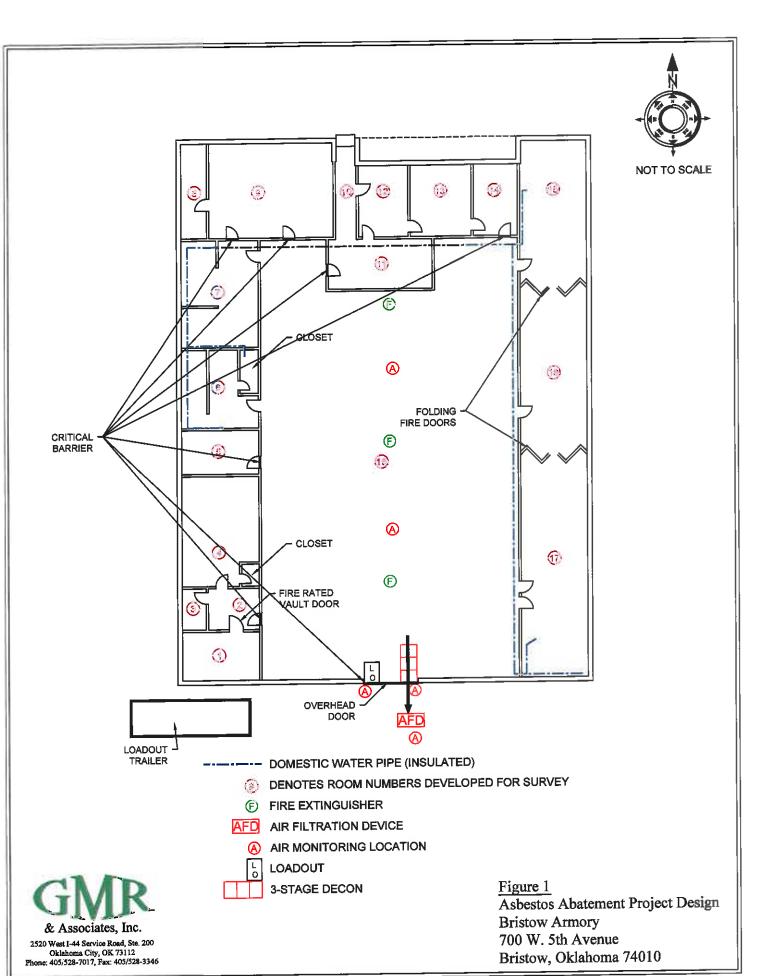
LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Page 3 of 3

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BA-17E Bra/White Web Pige Im. Alreso BA-18B A 11 BA-18		1000	100	
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	50			





### Okiahoma Department of Labor

Asbestos Division

Project Designer: Arless Murray

3017 N. Stiles, Oklahoma City, OK 73105

Project No: 13-7631 Date: 07/29/2013 Project Name: ODEQ-Bristow Armory

Disapproved:

Approved:

Phone - (405)521-6464

Fax - (405)521-6025

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epartment of Labor reserves the right to require additional engineering or environmental co	Any variances from the Abatement of Friable Asbestos Materials Rules.	Special materials or methods required to protect objects in the work area should be detailed, (plywood over carpeting or hardwood floors to prevent damage from scaffolds and/or falling materials.	The extent to which asbestos-contaminated soils, if any, must be removed and the sampling methods of determining the efficacy of such removal.	Details of decontamination system(s).	Details of project containment(s), glove bag or mini-containments, including drawings. Details shall include all applicable subchapters, including but not limited to scaffolding and live electric isolation.	Numbers, capacities, a diagram to identify locations, and discharge points, if any, of negative air machines.	Numbers and locations of Clean Test samples and type of analysis to be employed.	Details of personal and area air monitoring samples.	Abstement methods, and techniques, and numbers of containments, glove bags or mini-containments.	The quantity, type, percentage with bulk analysis unless presumed and a diagramed location of asbestos materials to be abated.	Identification of means of egress and a fire protection plan and a diagram for emergency escape routes, and fire extinguisher placements.	Sequencing and phasing of work.	A statement that DOL Abatement of Friable Materials Rules apply.	пем
ntroks consistent v	×	×	×	×	×	×	×	×	×	×	×	×	×	ACCEPTED
ith the Abatement				,										REJECTED
The Department of Labor reserves the right to require additional engineering or environmental controls consistent with the Abatement of Friable Ashestos Materials Rules which may be necessary because of discrepancies between this	None.	None.	None.	An attached decontamination unit.	Electric will be tocked and tagged out. 6-mil critical barriers and drop cloths will be required.	One negative air machine with a minimum of 1,500 CFM shall be required to maintain negative pressure through the decontamination unit.	Five PCM dearance samples will be taken in the work area.	Seven area monitors identified. 25% with a minimum of two personals.	Asbestos removal procedures per OAC 380:50-13 with glove bag using wet methods. The number of glove bags is estimated at 125.	400 linear feet of piping containing 40-45% chrysotile and 30 pipe fittings containing 65-70% chrysotile. The material is located in rooms 6, 7, 15, 17, 18, and closet east of room 6.	Two emergency exits and three 10:ABC fire extinguisher identified in drawing. Emergency lighting will be in place.	The work will be performed in one phase.	Page 1. Regulatory Compliance.	COMMENTS

Project Design and field conditions for from unanticipated changes in field conditions. In a Department of Labor reserves the fight to require additional engineering or environmental controls consistent with the Abatement of Friable Aspessos Materials Rules which may be necessary decause of discrepancies between this

REVIEWED BY:

DATE: 8-20-13 REVIEWED BY: CHIMPIC LOW

### **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 TM 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: <u>CAUTION: CLOTHING</u>

      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, 5th Edition

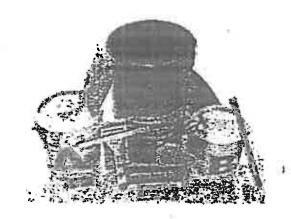
Occupational Safety and Health Administration, Department of Labor Section III

### **ATTACHMENT 4**

### DEQ Approved Lead-Based Paint Encapsulants List Sealant and Encapsulant Specifications

### Lead-Based Paint Encapsulants

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



Epoxy-Goat's Salion Interior High Garage Floor Coating Kit

hem #, 373342 | Model #: SK-0000 , . . . /

Be the first to

### Description

à-Gallia Interior I (ch Gloss Floer Coating Kit

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- 40053 holists
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Co's Fairly	9997	Sacto Resistant	Yes
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### *Kelly-Moore Paints* HIGH PERFORMANCE SYSTEMS

### KM-669

### Acrylic Sealer

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

Product Description

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

### Performance Features

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

### Product Specifications

Rasin Type	Acrylid
Color Range	Clear
Finish	High Gloss
Dryling Time	B hours terrecoat
Practical Conurage	250-450 Sq. Ft. / Gallon
Recommended Dry Film Thickness	1.2 -2.2 mile per coat
Solids By Volume	35%
Sizes	Fiva gallon palls
V.O.C.	560 Gents partition
Clean Up	KM-\$-74 or KLD-\$A-50

### Surfact Propertion

WARNING! If you scrape, sund or remove old paint from any surface, you may release lead dust LEAD IS TOXEC EXPOSURE TO LEAD DIST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE Wear a NIOSH-approved respirator to control lead exposure. Garefully clean up with a wet map or HEFA vacuum. Before you start, find cut how to protect yourself and your farally by contacting the U.S. EPALead Information Holline at 1-800-424-1 FAO 16223) or log on to waw.epa.gov/lead. LEAD (5323) or log on to www.epa.gov/lead.

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

Application Procedure:

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

For salety and product curing, proper ventilation is . recessing throughout application and cure.

Dry Thiat; 8 hours

San Precautions and Limited Wainanty next gage

### KM-669 (cont.)

Precautions

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

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

Limited Warranty: The statements made on this building product labels or by any of our affects obtained this material are given for information only. They are believed to be true and account and an intended to possible a guide to approved construction practices and presented. As workers are presented, resulted, construction adultation, quality of other metallics and other variables affecting results are all beyond our country, kelly-bloose Palet Carpaday, his, does not make any mananty of purposes or representative to make any mananty of purposes variables of representation, according to the purpose variables of representation, according to Kelly-bloose quality control standards. Any liability with section of Kelly-bloose quality control standards. Any liability with section of Kelly-bloose quality control standards. Any liability with section of Kelly-bloose quality control standards. Any liability with section of Kelly-bloose paints product is limited to the buildness of out the buyer of pass of this product is limited to the buildness of cost of the product locals.

SERMATERIAL SAFETY TRECATES FOR TOLL SAFETY PRECATES ONE.

KM-66913 TOMFRORSETORAL USE ONLY

KM-669 IS FOR INDUSTRIAL USIS DIVER KEEP AWAY PROM CEULDREST

### MATERIAL SAFETY DATA SHEET

### For Coatings, Resins & Related Materials

### Section to

Manufactured For.

Kelly-Moore Paints 987 Commercial Street Prep Date:

07/28/06

Address:

San Carlos, CA 94070

Emergencies Involving Spills, Leaks, Fires, Exposure, Or Accident Contact

Chemireo: 1-800-424-9300

Product Class: Acrylic Lacquer Sealer Trade Name: KM-569 CLEAR

H.M.I.S. Codes: H F R P 2\*30 -

Information Phone: 1-888-677-2468

### = Section II - HAZARDOUS INGREDIENTS =

Ingredient	CAS#	Weight Percent				esoure L'Temp.F
Acrylic Rasins	Mbittire	30-40	. Noti	Established	Not Dele	mbed
-EnclyX	1330-20-7	40-50	100 ppm	100 gan	5.1	Ċ3
tEthyl Bertzane	100-41-4	15-20	100 ppm	105 ppm	74	ΰŝ

\*Indicates toxic chemical(s) subject to reporting requirements of Section 3:3 of Title III and of 40 GFR-372.

### Section III - PHYSICAL DATA

Bolling Range (Deg. F): 240°

Evaporation Rate: Slower than Ether Percent Volatila By Valuma: 70 ± 3%

Vegor Density: Heavier then air

Weight Per Gallan Ata 1, 7,75 ± .25

### - Section IV - FIRE & EXPLOSION HAZARD BATA

Flash Point (Deg. F): 80°

Lower Explosive Limit 1.0

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

OSHA Flammability Classification: Flammable Liquid IC

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

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

### KW-669 CLEAR ===== Section V - HEALTH HAZARD DATA == THIS PRODUCT IS FLAMMABLE Effects Of Overexposure: Eyes: Imitation, burning, tearing and redness. Skin: Moderate irritation or defatting of skin upon prolonged or repeated contact. Ingestion: Abdominal pain, nausea, vomiting and diarrhea. Inhalation: Excessive exposure to vapors can cause headache, dizziness, uncoordination, nausea and loss of consciousness. Emergency & First Aid Procedures: Eyes: Flush with water for 15 minutes. Skin: Remove contaminated clothing, wash skin with soap and water. Ingestion: Do not induce vomiling. Get medical attention immediately. inhalation: Inlove to fresh air, aid breathing if necessary. In all cases, consult a physician for best treatment. Chemical listed as cardhogen or patential carcinogen: NTP: No IARC: No OSPA: No Similar V - REACTIVITY DATA Simplifix Product Stable Conditions to wroth All mutees of ignition lincompatibility (lifetoglatic light Aviold): Oxidizing agains, strong acids & bases Hazardone Decoragionican Productas Carbon monacide, carbon digida, nivigien cadas and organic compounds. Hazardinus Polymerkeijons Will Not Occur ------- Seppor VII - SPILL OF LEAK PROCEDURES --Steps To Be Taken in Casa Material is Fiteased Or Spilled: Dike spill area. About spill within st absorbent majorial. Place in gealed malal containers for proper disposal. Waste Disposal Method: Dispess of in accordance with local, state and federal regulations. \*\*\*\* Section VIII - SPECIAL PROTECTION INFORMATION -Respiratory Protections Use a NIOSH/NISHA jointly approved respirator Ventilation: Use mechanical ventilation Protective Gloves: Neggrene or rubber Eye Protection: Chemical splash goggles Other Protective Equipitient: Protective clothing, barrier cream, eye bath, safety shower

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

Section IX-SPECIAL PRECAUTIONS

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

State and Local Regulations California Proposition 65

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

### **ATTACHMENT 5**

### **Bristow Armory Lead-Based Paint Inspection Report**

### **FINAL ABATEMENT REPORTS**

### ENVIRONMENTAL ACTION INC.



LAND PROTECTION DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

November 26, 2014

Oklahoma Department of Labor 4001 North Lincoln Blvd. Oklahoma City, OK 73105

**RE:** Bristow 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

**ENCLOSURES** 

## Asbestos Daily Air Monitoring Forms

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		212734
	Microscope:	100
	Filter Area:	385
	Field Area:	0,01

Field Technician:

RODNEY HILL

Analyst (Print):

Analyst Signature:

RODNEY HILL

Date: 10-29-14

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### NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MAN

If waste is asbestos waste, complete Sections I, II, III and  $\mathrm{IV}_{\ast}$ 

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Pink - Transporter Retain

Goldenrod - Generator Retain

Green - Return to Generator Canary - Return to Operator

### STATE OF OKLAHOMA

DEPARTMENT OF ENVIRONMENTAL QUALITY – TULSA OFFICE 3105 E. Skelly Dr., Tulsa, Ok. 74105 - (918) 293-1614 (918) 293-1631 (fax)

### EPA / ODEQ - NESHAP ASBESTOS PROGRAM

FIELD / ABATEMENT SITE / INCIDENT / COMPLAINT - REPORT
\*\*\* ACTION REQUESTED / FINDINGS / DETERMINATION / ORDERS \*\*\*

DATE: <u>// // // // // // // // // // // // //</u>	. /// DEQ FILE #: ///57 1.	INSPECTOR: Marie 1005/20
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* 2	OF ACTION / INCIDENT / REQUEST:	
St. Ch.	91.3100, Oc 140109 114 + 0268	
ACTION REQUES	TED/INCIDENT/PROPOSAL:	
130 kg 190	ERED / ORDER GIVEN: Of Caralysis	nte superitted to age, waste
COMMENTS:		Land Project Design to demont stated corres than
SIGNATURES:	EPA/ ODEQ NESHAP INSPECTOR	COMPANY REPRESENTATIVE



### Oklahoma Department of Labor Mark Costello, Commissioner www.łabor.ok.gov

Oklahoma City 3017 North Stiles, Suite 100 Oklahoma City, OK. 73105 405-521-6464. 888-289-5353 Fax 405-521-6025

### **Abatement Preparation Inspection Form**

Abatement Project: 30, 34,000	MOTES Date: 10 -	29 - 14 Time 9 : 00
Project No.: 15 - 16 23	Phase:	
Project Address/Location:	City:	Zip.
Contractor: FA I	Contact Person:	Push Haria
Project Phone No.:	Contractor's Home/Office	J
Project Owner.	Owner's Rep.:	
A = Acceptable.	X = Deficiencies which must be	corrected before asbestos removel begins. If the only deliciencies are
<ul> <li>D = Denied; must be correct and re-inspected before asbestos r</li> <li>N/A = Not applicable to this project.</li> </ul>	emoval is begun. the "X" type, after correction	<ol> <li>asbestos abatement may begin before the deficiencies are correct shall constitute a <u>Serious Violation</u>.</li> </ol>
A D N/A X	A D N/A X	A D N/A X
(1) Work site barriers and warning signs	(21) Extension cords in acceptable condition	(39) Make-up air sources provide adequate circulation and
(2) Toilet facilities provided	(22) Equipment properly grounded . 🍱 🔲 🔲	air cleaning
(3) Worker licenses	(23) Tension relief on electric	(40) Access controlled
(4) Emergency telephone #'s	cords 🗹 🗌 🖺 🔲	(41) Scaffolding over 10' high has 42"
(5) OSHA forms, poster (min.	(24) De-con firmly constructed, opaque, with triple flaps	
wage, workers comp, equal opportunity)	(25) De-con trailers properly	(42) Scaffolding from 4' to10' high, but less than 42" wide, has
(6) Air mon., results from prior	grounded	side rails
phases, if applicable	(26) Storage lockers for workers and ODOL inspectors' street	(43) Scaffolding with people working under has mesh or solid
(7) Respirator program and project design on-site	clothes	barrier on platform 🗹 🗌 🔲 🔲
(8) Respirator, air system and	(27) Shower with hot water supply,	(44) Scaffolding floorboards in good condition and secured
equipment manuals	stable nonskid surface, lights . [67] [	(45) Aerial lifts have full-body harness
discharge oil	(28) Shower drains, filter, proper water disposal	with shock lanyards
(10) CO monitor, high temp and low pressure alarm tested on-site.	(29) Soap from dispenser, and	(46) Ladders are non-conducting and stable
(11) Cascade system secure and	towels provided	(47) Heat stress monitors in place
certificate of air quality	(30) Hearing protection provided if required	(48) HEPA vacuum is clean with filters properly installed
(12) Automatic back-up air of proper quantity in full containers	(31) Hard hats provided, if	(49) Temporary lighting is adequate and and properly
(13) Bull hoses and respirators	required	wired and grounded
free of oil residue	(32) Appropriate footwear/safety shoes provided, if required	(50) 10 # ABC fire extinguishers inspected
manifold	(33) Electrical system in	(51) Adequate escape routes are properly marked and
(15) NIOSH approved respirators, clean, parts in working order .	abatement area locked out / tagged out	illuminated with emergency lighting and battery back-up
(16) Electrical panel outside work	(34) Ventilation serving or passing	(52) Acceptable amended water sprayers
area	through the abatement area deactivated	and chemicals provided
licensed electrician	(35) Critical barriers in place	for make-up air
LIC #:	(36) Neg. air quantity and pressure drop,	(54) Disposal bags and/or barrels provided and properly labeled
properly grounded	confirmed on-site with recording	(55) Disposal vehicle properly
(19) Ground fault interruption provided from outside work	manometer	lined
area	filters, clean pre-filters	(56) Disposal vehicle properly tagged and marked
(20) Live electrical requirement	(38) Prep. work secure with negative air on	(57) Area monitoring locations
# OF GLOVEBAGS	# OF FULL CONTAINMENTS	# OF MINI CONTAINMENTS
Recommendation & Remarks:		
Orders: Rower of Cont. A.	and the same to the of	o V/F
Kist of Henry		Mach Hart
Inspector's Signature	Contrac	tor'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)

Visual/Final/Inspection Form

DOL Project #:	13 - 79	64		li	03	14	11:00
Facility:	Brishow	MINDIN		Month	Day	Year	Time
Contractor #:		<u> </u>		County #:	,	F\	
Address/Location:	100	w 5th		Address City:	2	1. stow	#9
Owner/Occupant:				Contractor:		EAI	
Contact Name:				Contractor's Rep	o.:^\	ash Har	6
Facility Phone #:	And the result	,		Contractor's Pho		25) 659	-2485
Description of Are     Areas requiring full		bathroun		gifani		process to	2
3. Air Counts PCMT	EM) On-Site?:	<i>y</i> -9 -	all cle	12 12 13 12 13 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	L.cC	m.) .0(	UEL
4. DOL Recommenda	tions:	Arm	JN 6	Company of the second of	2 (5	- a-lay	
5. Will a FINAL inspec	tion be required	?:	The sign	ale fo	act -	Fared	is record
6. Notes:	n Co	- Flexas		Marie D.	ing and	2	
7. Note any violations	cited: <u>380:5</u> 0						
8. Contractor's Comme	ents;						
Keid H.	Hers	en e e e e e e e e e e e e e e e e e e	-	Mark	Hung	<b>3</b>	
In	spector's Signatu	re			Contractor	s Signature	
Revised 3/2014		Mhito	Conv. DOI	fellow Onne On one		_	

White Copy DOL

Yellow Copy: Consultant

Pink Copy Contractor/Owner

### Oklahoma Department of Labor

<b>A</b>	Initial Notification	0 900	Emergency Notification
	Revised Notification		377

### Mark Costello commissioner

ASBES	STOS	PROJECT	CHECKLIST	
NAN		ADDRESS	CITY	PHONE
Job Site: Former Bristow Armor	у	700 West 5th Avenue	Bristow Oklahoma	N/A
Contractor: ENVIRONMENT		PO BOX 1029	JENKS OK	918-298-4080
Site Owner: OMES CAP 240	I N. Lincoln	Blvd., Suite 106, Okłaho	ma City, OK 73105	405-5 <b>22-</b> 6762
Gen. Contractor N/A				
Project Designer: Arless Mun	-	West I-44 Service Road	, Ste 200 OKC, OK	405 528-3346
Air Monitoring Firm: ASTECH	PO Box	771 Blanchar	d, OK	405 618-7660
Air Monitoring Firm: N/A				
Landfill: WASTE CONNECTION	DNS	7600 SW 15 <sup>TH</sup>	OKC OK	405-745-3002
Hauler: Lowder Transportation	POB	ох 307	Shawnee, OK	<b>405 275</b> -8538
MOBILIZATION DATE: 10/20/ PROJECT COMPLETION DA Type and percentage asbesto	TE: <u>11/15/2</u> s (attach lab	014_RENOVATION: X reports): Submitted wi	DEMOLITION : th approved project des	EMER:
AMOUNT OF ASBESTOS TO		D: 400 LF of TSI - 30	littings	
ABATEMENT TECHNIQUES:				
SUBMITTALS NECESSARY E ATTACHED TO THIS CHECK DEPARTMENT OF LABOR.	BEFORE AB LIST OR WI	HICH ARE ON FILE AT	THE OKLAHOMA STA	THOSE ATE
N/ANESHAPS Notification (Co	mv)	v	'ariances	
Project specifications	C31			
Bonds and/or insurance Ce	ertificates	<del></del>		
Plans for Decontamination	Facilities	<del></del>		
Respirator Program				
Employee Physicals	17			i
Permission from owner for a	all rented ve	hicles/trailers used to h	aul asbestos-containing	n material.
# of Mini-containments	FEES		•	
_TBD_# of Glovebags		VI		ļ
_# of Containments		O per containment O per project not part of a c	definite containment	i
1 # of Phases			uernne cornamment. glovebegs or mini-contain	ment
		per such glovebag or mir		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Comments:				
9	Con	have Chemitractor/Responsible	Party Signature	10/17/2014 Date

H:\ACCESS\508\AsbestosProjectCheck\lst.wpd

### **EPA NOTIFICATION OF DEMOLITION OR RENOVATION**

OPPIGE USE ONLY: DATE RECEIVED:
L FACILITY INFORMATION:
OWNER: OMES CAP PHONE: 405 522-6762
STREET ADDRESS: 2401 N. Lincoln Blvd. CITY: Oklahoma City STATE: OK ZIP: 73105
FACILITY REPRESENTATIVE Laurie Ryan PHONE: 405 522-6762
ASBESTOS ABATEMENT CONTRACTOR: Environmental Action, Inc.
STREET ADDRESS: 8526 S. Peoria Ave. CITY: Tulsa STATE: OK ZIP: 74132
REPRESENTATIVE: Don Jolley PHONE: (918) 298-4080
PAGER: None CELL PHONE: _(918) 645-8157
AIR MONITORING FIRM OR OTHER OPERATOR ASTECH
STREET ADDRESS: P.O. Box 771 CITY: Blanchard STATE: OK ZIP: 73010
REPRESENTATIVE: Rodney Hill PHONE: 405 618-7660
U. TYPE OF NOTIFICATION: (O=ORIGINAL) OR (R=REVISED) O
III. TYPE OF OPERATION: (D=DEMOLITION) (R=RENOVATION) (ER=EMERGENCY RENOVATION)  R
IV. IS ASBESTOS CONTAINING MATERIAL (ACM) PRESENT? YES XXXXX NO
V. FACILITY / BUILDING DESCRIPTION (BE SPECIFIC AND DETAILED AS TO NAME, #FLOORS, EXACT ACM LOCATION, ROOM NUMBERS, ETC.)
FACILITY: Bristow Armory ADDRESS: 700 West 5th Street
CITY: Bristow STATE: OK ZIP CODE: 74010 COUNTY: Creek
WHERE IS ACM LOCATED? Thermal Insulation on domestic water lines
BUILDING SIZE: SQ. FEET: 11,500 AGE: 60+ YEARS # OF FLOORS: 1
PRESENT USE: Bristow City storage PREVIOUS USE: Armory
VI. PROCEDURES USED TO DETERMINE PRESENCE OF ACM INCLUDING ANALYTICAL METHODS:
Visual inspection of the building suspect materials were collected analysis by polarized light microscopy
NAME OF EPA ACCREDITED INSPECTOR WHO PERFORMED INSPECTION AND SAMPLING INCLUDING AFFILIATION AND OKLAHOMA DOL LICENSE NUMBER:  Howard Burch - GMR - ODOL AHERA Inspector License # 159522

### **EPA NOTIFICATION OF DEMOLITION OR RENOVATION CONTINUED**

VII. AMOUNTS OF REGULATED ASBESTOS CONTAIN AMOUNTS OF CATEGORY I OR II MATERIALS W	ING MATI	ERIAL (RACM LL) WILL NO	i) TO BE REMOV T BE REMOVED	ED; ALSO (circle one)
PIPESLINEAR FT: 400 SURFACING AREA SQUA	ARE FEET:	0 OF	F FACILITY COM	PONENT:
CUBIC FEET:CATEGORY I - SQ FT:	_ CA	TEGORY II - S	Q. / LN. FT	<u>)</u>
VIII. SCHEDULED DATES OF ASBESTOS REMOVAL:	START:	10/30/2014	FINISH	: 11/15/2014
IX. SCHEDULED DATES OF DEMO / RENO:	START:	None	FINISH	: None
X. DESCRIPTION OF THE PLANNED ASBESTOS REMO (e.g. gross removal, glove bagging, manual scrape, et	DVAL TEC tc.)	HNIQUES TO	BE EMPLOYED:	
TSI-Glovebag				<del></del>
XI. DESCRIPTION OF THE CONTROLS AND WORK PR FIBER EMISSIONS (e.g. full containment with negative removal glovebag)  wet removal glovebag	ACTICES 7 tive pressure	TO BE USED To adequate wetti	O PREVENT ASE	BESTOS
XII. LICENSED ASBESTOS WASTE TRANSPORTER:	Lowder Tra	nsport <b>atio</b> n		
ADDRESS: PO Box 307 CITY:	Shawnee	STA	TE: OK ZIP:	74802
REPRESENTATIVE: Tom Lowder	PHONE:	405 615-4075		
XIII. STATE PERMITTED ASBESTOS WASTE DISPOSA	AL SITE:	Waste Connect	ions of Oklahoma	
ADDRESS: 7600 SW 15th CITY:	Oklahoma C	City STA	TE: OK ZIP:	73125
REPRESENTATIVE: Inger Monet	PHONE:	(405) 745-3002		
XIV: IS DEMOLITION ORDERED BY A GOVERNMENT	AGENCY?	YES:	NO: XXXX	
NAME OF AGENCY: N/A	REPRESEN	TATIVE:		<del> </del>
DATE OF ORDER: DATE DEMOLIT	TON IS TO	START:		
XV. IS THIS RENOVATION REQUIRED DUE TO AN EMI	ERGENCY	YES:	NO: XXXX	
DATE OF EMERGENCY: HOUR OF DA	Y EMERGE	ENCY OCCURE	RED:	
DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT O	CAUSING T	HE EMERGEN	CY:	
EXPLANATION OF HOW THIS CAUSED 1) UNSAFE CONDITIONS; AND/OR 3) IMPOSES AN UNREAS	TIONS; 2) SI SONABLE F	ERIOUS DISRU INANCIAL BU	JPTION OF NORM JRDEN? (be specific	AL c & detailed)
	<del> </del>			

PAGE 2 OF 3

### **EPA NOTIFICATION OF DEMOLITION OR RENOVATION CONTINUED**

XVI. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NON-FRIABLE ASBESTOS BECOMES FRIABLE (crumbled, pulverized, abraded, or reduced to powder, etc.):							
Stop work, wet the materia	als, collect and bag loose materials, notify DEQ						
*********	<del>****************</del>	*********					
AND EVIDENCE OF HIS/HE (OR BE POSTED) FOR INSP	IDUAL TRAINED IN THE PROVISIONS OF SHAP) WILL BE ON SITE DURING THE DIER TRAINING AND CERTIFICATION / LICECTION DURING BUSINESS HOURS:	EMOLITION OR RENOVATION					
SIGNATURE OF OWNER / OPERATO	DR: Survey	DATE: 10/17/2014					
PRINTED NAM	E: Darwin Chesnut	·					
***************	****************	<del>********************</del>					
XVIII. I CERTIFY THAT THE ABO SIGNATURE OF OWNER / OPERATO	OR: CORRECT TO THE	E BEST OF MY KNOWLEDGE:  DATE: 10/17/2014					
PRINTED NAME	E: Darwin Chesnut						
***********************	*******						
supervises the den	FOR Any person who owns, leases, operates, olished or renovated or any person who owns, lease olition or renovation, or both.	ases, operates, controls or					
ADDITIONAL COMMENTS:							
EPA NESHAP AUTHORITY:	OKLAHOMA DEPARTMENT OF ENV. Air Quality Division, 707 N. Robinson, P. OKC, OK 73101-1677 or Tulsa Regional Office, 3105 East Skelly D	O. Box 1677					

NOTE: Please submit your Notification to the DEQ office closer to your job site.

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

DAILY FIELD ACTIVITY LOG

			Monday
SUPERVISOR: AJASA Hago	DATE: 10-27-14		Page \ of
PROJECT NAME: Briston Armore	1	PROJECT NO.	5503
FIELD ACTIVITY SUBJECT:			
DESCRIPTION OF DAILY ACTIVITIES A	ND EVENTS: 07:	00 Crew on sit	
Begin head Hepa VACumina Then is 87-Glove bags - (9:00) -	+ Wet wil	sein @ Rm +5- 1	, 2, 3, 4,
Then is 87 - Glove bags - (9:00) -	Start CLEAN in	~ Rms 15, 16+17	
12:30 Dack to work. Continue  Start in 5. 6, + 7.	Welesning in	Ruis 15,16+17.	Done 1/1.23.4.
	<i>1</i>		
5:00 Pickup Work Aren's	****		
5:15 Shut Down For the D.	Ay.		
	U		
)			
Note: 830 N.H-speaks W Bervita	Hart Wood S	ets inspection an	87 6 ma bacs
@ 9:00 A.m. Wensday -10-29-14	1		0
10:00-Am Call Bevi Rossler W/DDes	Adused him	of the Dren Time	a-tin.
10:00-A.m. Call Reve Roesler WODE 6 VISITORS ON SITE:	CHANGES FROM	PLANS AND SPECIFIC	CATIONS, AND
14	OTHER SPECIAL	ORDERS AND IMPOR	FANT DECISIONS:
1	;		
J. Lambert 10. chesult			
WEATHER CONDITIONS:	IMPORTANT TEL	EPHONE CALLS:	
G4			
H PERSONNEL ON SITE:			
SIGNATURE: Way Jan		DATE: /0-27-14	
7	7		

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

DA	П	Y	FIEL	n	A	CTI	Vľ	TV	Ŧ.	$\Omega C$	4
Jan 2 3		, ,			7.7		v .		-11-4	/L //L	я

			Wesday
SUPERVISOR: NASH HAGO	DATE: 10 -18-10	4	Page 2 of
PROJECT NAME: Bristow Armory	·	PROJECT NO.	5503
FIELD ACTIVITY SUBJECT:			
DESCRIPTION OF DAILY ACTIVITIES A	AND EVENTS: 02:00	Chen maita	
Crew is cleaning Rm 8.			· · · · · · · · · · · · · · · · · · ·
9:00 Crow is Hepa Vaccioning the 10:00 J. Grommer here he +1- Nis Tryck + Take To RR-S	c Drill Flooreth	171 Start to 1	et-liliaetMAD
10:00 J. Grammer here he +1-	-lekr Will Load	APTIL Mass	+ IxAsh costs
Nie Truck + Take To BR -	Soor in Strand	1 + Daload	T THE CONTO
I'L'M WIMEN.			
1:00 Continue W Dvill A. + )	andre Ot o	F-Bres	
5:00 Pickup Work Aren.	50.0	3-	
5:15 Secure trailer + Bldg	Shut Do F	E the Da	
O TO DEWINE STATIET FORM	) Orac Down	or the pag.	<del></del>
	······································		
		·	
			······································
8:30 car w/R Hill w/1-to h 111	0 h) E14	0	T
8:30 Spoke of R. Hill of Astech Ad Morning he Said he would have	bised him of the	- Lieb Maberion	OMOVIOU
JOHNUE HE DALA HE WOULD NOVE	Someone neme 7	to cover the Job	<del>-</del>
VISITORS ON SITE:	CHANGES FROM P	LANS AND SPECIFIC	CATIONS AND
ná		RDERS AND IMPORT	
VEATHER CONDITIONS:	IMPORTANT TELE	PHONE CALLS:	
M.			
			1
I PERSONNEL ON SITE:			· · · · · · · · · · · · · · · · · · ·
GNATURE:	l D	DATE: 10-28-1	4
			. 1

DAILY I	FIELD ACTIVITY	LOG	lela alan
SUPERVISOR: NASh Hage	DATE: 10-29.	14	Page 3 of
PROJECT NAME: Briston Armore	ć	PROJECT NO.	5503
FIELD ACTIVITY SUBJECT:	)		30 9 3
DESCRIPTION OF DAILY ACTIVITIES A	ND EVENTS: 070	a Cherlan lita	
Do LAST minute Detailing of G	illuebas- com	dias Make Son S	)emil (10 + Ruma)
Prep Insp is @ 9:00 A.MAllis A	propried - 10:00 bear	in Removal -16 porch	raging).
10:30 colled ODOL Ast. Dive to Set	CUD Visual Finale	Inspection For Mono	My 11-03-14
First thing that morning (No Auser)	HEFT MOSSAGE	For B. Hart	7110311
1200 lunch	0		
1700 back to work / Continue w/ G/60	e bagging.		
2:30 N.H. Spoke of B. Hut-ODOL,	465-Div Set up	Visual/Finale Inc	metion for—
monday -11-03-14 @ 10:00 A.m.	Per: B. Hart.	IF Clearance Sanots An	e Acceptable
abusines Done / Start clearances-	- Will hue Reso	bbs Z-mailed to 01	206 + to
Z.A. I OFF in the Morning /	5:15 Shot Dew	w For the Dans	
1		4	
Mote B. Hart Advised FASI that we Co	wld Continue w/ Th	e LBP-cleaning in t	he Bilda.
Z-mail Resolts 2 st thing in the Mo	ornina.	,	d
		· ·	
7:308 Grummer Shows up Weed ?	5-WKVstogot	io Do A-Tile.	
8:30-R. Hill here W/ Astech to you Air.			
9:00 - K. Hunt 4 ODOL - AGB. Div. here F	or Prep Insp. Al	lis good (Accepted	(.)
VISITORS ON SITE:	CHANGES FROM	PLANS AND SPECIFIC ORDERS AND IMPORT	CATIONS, AND
	OTHER SPECIAL	ORDERS AND IMPOR	IANT DECISIONS:
WEATHER CONDITIONS:	IMPORTANT TET	EDITONE CATTO	
WEATHER CONDITIONS.	IMPORTANT TEL	EPHONE CALLS:	
Cool-42°-A.m.			
	w.		
H PERSONNEL ON SITE: Hodge Hill SIGNATURE:	M Astech	DATE: /A 4 4	
PAVENCE CINES		DATE: 10-29-14	

DAILY FIELD ACTIVITY LOG SUPERVISOR: NASh Hario DATE: 10-30-14 PROJECT NO. 5503 FIELD ACTIVITY SUBJECT: DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 02:00 Crew on site. Clempares Are Areaptable, Crew Will Terr Down Criticals. 9:00 Start Cleaning For Lead Dost in Prix (Run Windows + 5165 Heps Vac, lett Win L'oo R. Koesler here 400EQ Advises Contractor that All Locks good. ( See Ing Root File, 1:00 back to Work East Side of Prill Am Windows Dore, Will Start on the West Side 4:00 West Side Drill Room Window's Doner gather All tools + Supplies, Clean Out-Equitment Trailer, Take Out Trash brags. 5:00 Secure Trailer, + Bldg. Shut Down For the Week-Note: City Inepodor Stops in Looks @ Awing Said he woold try to get Something Done on the Danaged Wood-VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: IMPORTANT TELEPHONE CALLS: IH PERSONNEL ON SITE: SIGNATURE:

DATE: 10-30-14

DAILY FIELD ACTIVITY LOG

CIPEDITION AT		Monday
SUPERVISOR: NASh HATIS	DATE: 11-03-14	Page 5 of
PROJECT NAME: Bristan Armory		PROJECT NO.5503
FIELD ACTIVITY SUBJECT:		
DESCRIPTION OF DAILY ACTIVITIES A	AND EVENTS: 07:00 C	An Site
Start Tripale Cleaning of 9	loors starting in t	he Vault Rus Man 1. Instead
Insp on Glose bags which  11:00- K. Hunt Model Said he W	pains @ the Lodie	In Until Visual/Finde
Insp on alocobasis which	6 @ 10:00 A.m. to	his uprains.
11:00- K. Hunt youl Said he W	Sould be here About	= 11:20.A.m. / 11:25 A.m —
Inspector here books Pipe	2 Over All is con	ad Visual/France Amot
12:30 Start on East Side 1 4:45 Start cleaning up Work	1. End Hope Vigery +	- Cleaning (10let comm)
4:45 Start cleaning 40 Work	Avenie Secure Trail	er Bile
5 10 Shot Down For the Day.	)	, 10 03
VISITORS ON SITE:	CHIANGES TO STATE	
VIDITORD OIV BITE,	OTHER SPECIAL ORDER	S AND SPECIFICATIONS, AND RS AND IMPORTANT DECISIONS:
	16:00 A.m. Visual/ Fine	the First @ this morning.
D. Lovetto / ZAI-Insolutors		. ,
WEATHER CONDITIONS:	IMPORTANT TELEPHON	NE CALLS:
#1		
H PERSONNEL ON SITE:	/	
IGNATURE: DAY 11	DATE:	5503/11-03-14
(00		0303/ 11 02 /7

DAILY FIELD ACTIVITY LOG

		luesday	
SUPERVISOR: NASh HAGO	DATE: 11-04-14	Page	6 of
PROJECT NAME: Bristow Armory		PROJECT NO. 550	3
FIELD ACTIVITY SUBJECT:	•		<del></del>
DESCRIPTION OF DAILY ACTIVITIES A	ND EVENTS: 07'00 CAR	· m lit	<u> </u>
Contine of East Side Hapa Van Putting Finishing Tooches on 11:30 Lunch	committed with wince	1500 Flor 11-10K	٧٠ ١٨
Putting Finishing Touches on	the Ban Kitchen	Liadies + mons R	00.00
11:30 Sunch		73.0003 (71040 1/4	DONC.
12:30 back to lebik. 3-WK	rs Will begin to H	a Vac+ moo/	10+12in-
Drill Rm A. Starting on	the South End	1. love to to	do the
Morth.	- CAO	COINING COWAY	من دبرو
3:30-2-wkrs begin to bear	Daw Decay Unt		
3:30-2-wkrs begin to trav 5:00-clean up Work Aven's, Secur 5:15-Shut Down For the Day	a Troiler + Blok		
5:15- Shut Down For the Dam	·		<del></del>
			<del></del>
		· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	···	<del></del>
		<b>2</b> + 3	
Not: Advised. Ed Pack 4/ En		7 7 0 2.	
For tothe on Land But Her	econ that Looks I aid What he would be CHANGES FROM PLANS OTHER SPECIAL ORDER	Ke Morsolag Si	20 D.WI-
VISITORS ON SITE:	CHANGES FROM PLANS	AND SPECIFICATION	S AND
85	OTHER SPECIAL ORDER	S AND IMPORTANT D	ECISIONS:
<b>∓</b>			
I chesit James Lambert			
WEATHER CONDITIONS:	IMPORTANT TELEPHONE	CALLS:	
a . /o			
cool/Kaw			16
H PERSONNEL ON SITE:			-
IGNATURE: MAY HA	DATE:	11-04-14	
		11 07-14	

DAILY FIELD ACTIVITY LOG SUPERVISOR: Wash Hace DATE: /1-05-14 of PROJECT NAME: PROJECT NO. 5503 Armon FIELD ACTIVITY SUBJECT: DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 04:00 Crewon Dito. Contine of Ten down of Dogow Unital Hepa Vac, Mop/Wet leaps of Room Floor. Starting on South End + Progressing Tago + J. mendous go to Jenks/Lowes To Vickup Fix 10:30 unload Siling Put up IN Bldg. / Spoke "/ David Hagga VISITORS ON SITE: CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: WEATHER CONDITIONS: IMPORTANT TELEPHONE CALLS:

DATE:

DAILY FIELD ACTIVITY LOG

		Thorsday
SUPERVISOR: Nash Hago	DATE: // L/14	Page S of
PROJECT NAME: Bristan Armory.		PROJECT NO. 6503
FIELD ACTIVITY SUBJECT:		-
DESCRIPTION OF DAILY ACTIVITIES	S AND EVENTS: Own	Cannon Ster
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Daily Sign In Sheet

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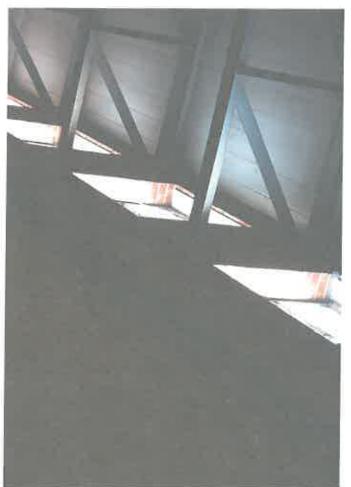
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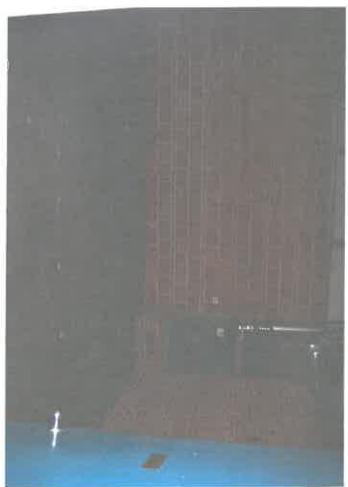




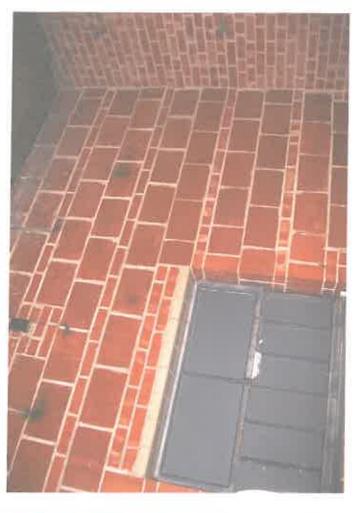
























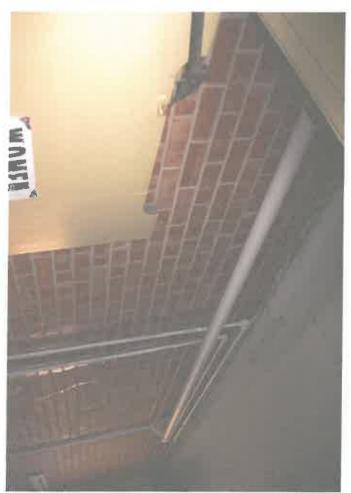


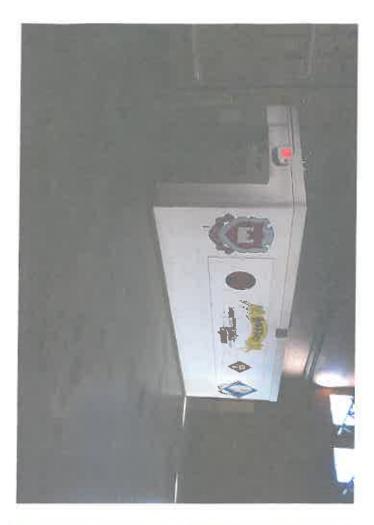


















### **CONFIRMATION SAMPLING**

### ARMORY LEAD CONFIRMATION SAMPLING **BRISTOW ARMORY** 700 WEST 5th AVENUE **BRISTOW, OKLAHOMA**

Prepared For:

Oklahoma Department of Environmental Quality **Land Protection Division** 

> 707 N. Robinson Avenue Oklahoma City, OK 73102

> > November 21, 2014



ENERCON SERVICES, INC. 1601 N.W. Expressway, Suite 1000 Oklahoma City, Oklahoma 73118 (405) 722-7693 Fax: (405) 722-7694

Prepared by:

Emmett W. Muenker, M.E. Lead-Based Paint Inspector/Risk Assessor

**OKRASR-11260** 

Edward A. Pack Lead-Based Paint Inspector OKINSR13725

### TABLE OF CONTENTS

Sectio	<u>n</u>	<u>Page</u>
1.0	PURPOSE AND SCOPE	1
2.0	BACKGROUND	1
3.0	CONFIRMATION PROCEDURES	1
4.0	CONFIRMATION SAMPLING	2
5.0	CONCLUSIONS	2

### **APPENDICES**

APPENDIX A – Scope of Work for Confirmation Lead Sampling
APPENDIX B – Lead-Based Paint Firm and Individual License
APPENDIX C – Post Remediation Initial Confirmation Sampling Results – Drill Floor, Office Area, and Other Rooms
APPENDIX D – Post Remediation Final Confirmation Sampling Results – Office Area, Room 8

### 1.0 PURPOSE AND SCOPE

This clearance sampling was requested by the Oklahoma Department of Environmental Quality, Land Protection Division, in order to confirm that lead remediation at the Bristow Armory, 700 West 5th Avenue, Bristow, Oklahoma, had been satisfactorily completed. Enercon was contracted to conduct confirmation wipe samples following remediation using the sampling protocols described in the Scope of Work provided in Appendix A.

### 2.0 BACKGROUND

The State of Oklahoma has determined that a number of armories located throughout the State that are no longer needed are to be transferred to local communities. Prior to these transfers, environmental investigations were conducted by the Oklahoma Department of Environmental Quality to determine if there were any environmental issues associated with these armories. As a result, inspections for lead contamination and lead-based paint were conducted, resulting in contracts for remediation of lead contamination by private contractors. In order to determine if the contamination has been satisfactorily remediated, confirmation testing was scheduled following remediation. An independent, third party firm licensed by the State to conduct Lead-Based Paint Inspections and Clearance Tests was engaged to complete the testing. The lead remediation contractor for the Bristow Armory was Environmental Action, Inc., 8526 South Peoria Avenue, Tulsa, Oklahoma 74132.

### 3.0 CONFIRMATION PROCEDURES

Confirmation of the adequacy of remediation is accomplished by collecting wipe samples on the floors and/or walls of the armory on a room by room basis using the sampling criteria set forth in the Scope of Work (Appendix A). All wipe samples are collected by an Oklahoma-licensed LBP Inspector or Risk Assessor who is employed by an Oklahoma-licensed Lead-Based Paint Firm. Copies of these licenses are provided in Appendix B. The procedure involves using a floor plan layout of the armory to mark all sample locations and collecting samples using a 12" by 12" template and lead wipes to collect the samples. The floors were gridded using a 3 x 3 grid for rooms 50 feet long or less. For rooms longer than 50 feet, the room was divided into two halves, with each half using a 3 x 3 grid for sampling. For other areas of the armories, wipe samples were collected from the floor in areas where lead-based paint abatement had been completed and from a 3 x 3 gridded area for elevated lead dust levels. Following remediation, confirmation wipe samples were collected. If any sample exceeded  $40 \mu g/ft^2$ , the entire 3 x 3 gridded area was re-cleaned and re-tested. Sample

locations were collected within ten feet of the doorway for smaller rooms and closets, and all rooms (including the drill floor) were sampled using a 3 x 3 grid. Ten (10) randomly selected window sills were sampled and if any sample exceeded 250  $\mu$ g/ft², the window sill was required to be re-cleaned and re-tested. Procedures for individual wipe samples as outlined for EPA/HUD dust wipe sampling were used for this project.

### 4.0 CONFIRMATION SAMPLING

4.1 Results of Initial Confirmation Sampling in the Drill Floor, Office Areas, and Other Rooms
On November 6, 2014, initial confirmation wipe samples were collected from the floors of the Drill
Floor, Office Areas, and other rooms. Sixty-seven (67) samples were collected initially, including
fifty-seven (57) floor samples and ten (10) wipe samples collected from randomly selected window
sills. One (1) floor sample exceeded the 40 μg/ft² threshold. All window sill samples were below the
250 μg/ft² threshold. A floor plan layout showing the location of the wipe samples, the room that
exceeded the threshold amount, the laboratory report and chain of custody are found in Appendix C.

### 4.2 Results of Final Confirmation Re-Sampling in Office Area, Room 8

On November 17, 2014, following additional cleaning in the one room (Room 8) that exceeded the threshold, three (3) re-sampling confirmation wipe samples were collected. These samples were below the threshold. A floor plan layout showing the location of the wipe samples, the laboratory report and chain of custody are found in Appendix D.

### 5.0 CONCLUSIONS

Based upon the foregoing confirmation sampling, it is concluded that the lead hazard associated with the floors and window sills in the Drill Room, Office Areas, and other rooms have been effectively mitigated.



### SCOPE OF WORK

### For Armory Lead Confirmation Sampling

### Bristow, Pauls Valley, Lawton, Anadarko and Eufaula Armories

The Department of Environmental Quality will soon be hiring contractors to remediate lead-based paint and lead contaminated dust from former National Guard Armories located in Bristow, Pauls Valley, Lawton, Anadarko, and Eufaula Oklahoma. Once abatement is complete, confirmation wipe samples will need to be taken on floors in areas where lead-based paint abatement was performed, on window sills, and in rooms that previously tested high for lead dust on floors. Attached is the Confirmation Sampling Instructions (Attachment 1).

Below is a detailed list of what will be required at each site.

- Perform each sampling event within five (5) days of notice from remediation contractor.
- Provide DEQ with sampling plan for approval prior to each sampling event.
- Travel to the each armory up to (5) times to take confirmation wipe samples.
  - o Bristow Armory Up to 100 samples will be taken.
  - o Pauls Valley Up to 100 samples will be taken.
  - o Lawton Armory Up to 150 samples will be taken.
  - o Anadarko Armory Up to 300 samples will be taken.
  - o Eufaula Armory Up to 300 samples will be taken.
- A total of 950 confirmation wipe samples will be taken for this project.
- Samples will be run with a 24 hour turnaround time and results with sample location map will be submitted to DEQ for review.
- Once all sampling is complete at an armory, a Confirmation Sampling Report will be submitted to DEO for approval.
  - o A total of five (5) Confirmation Sampling Reports shall be submitted.
  - o One report will be submitted for each armory.

### **Room Floors**

- A. All Rooms that had lead samples above 40 ug/SF in the inspection report will require confirmation samples to be taken.
- **B.** All Rooms and hallways connected to rooms that had samples above 40 ug/SF in the inspection report will require confirmation samples to be taken.
  - 1. A 3 section by 3 section grid system shall be used. Samples shall not be collected on all one section or end of a grid. A total of 3 samples shall be collected per 3 section by 3 section grid.
    - Room floors shall be divided into a 3 section by 3 section grid. (Figure 1 and Figure 2)
    - The Drill Floor shall be divided in half and a 3 section by 3 section grid shall be established on each half. (Figure 3 and Figure 4)
  - 2. Sample results in excess of <u>40 ug/SF</u> are considered to have failed. If a sample fails, the entire 3 section by 3 section grid shall be re-cleaned and re-sampled.
  - 3. DEQ reserves the right to take additional confirmation samples.

Figure 1. ACCEPTABLE FOR SURFACES LESS THAN 50 FEET

Wipe Sample		
	Wipe Sample	
		Wipe Sample

Figure 2. NOT ACCEPTABLE FOR SURFACES LESS THAN 50 FEET

Wipe Sample	OR Wipe Sample	Wipe Sample
Wipe Sample		^
Wipe Sample		

Figure 3. ACCEPTABLE FOR SURFACES GREATER THAN 50 FEET

Wipe Sample					Wipe Sample
-	Wipe Sample		Wipe Sample		
		Wipe Sample		Wipe Sample	

**Surface Center** 

Figure 4. NOT ACCEPTABLE FOR SURFACES GREATER THAN 50 FEET

			Wipe Sample	
Wipe Sample	Wipe Sample	Wipe Sample	Wipe Sample	
			Wipe Sample	

**Surface Center** 





This is to Certify That

## ENERCON SERVICES INC

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

Certification #: OKFIRM11152

This certificate is valid from the date of issuance and expires us prescribed by law.

Issued on: 4/1/2014

Expires on: 3/31/2015

Air Quality Division Division Director



Environmental Programs Manager

# Department of Environmental Quality

This is to Certify That

## EMMETT MUENKER

has mee the specifications of the Oklabones Loud-Based Paint Manageraoni. Act and the certified as a Lend-Based Paint

# INSPECTOR/RISK ASSESSOR

Certification #: OKRASR11260

This certificate is valid from the data of issuance and expires as presembled by law.

Issued on: 4/1/2014

Expires on: 3/31/2015

Divisfon Director Air Quality Division



Environmental Programs Manager

Air Quality Division

# Department of Environmental Quality

Thus we to Certify That

### EDWARD PACK

has mer the specifications of the Oklahoma Lead-Based Paint Management. Vet and its certified as a Lead-Based Paint.

### INSPECTOR

Certification #: OKINSR13725

This certificate is valid from the date of issuance and expires as prescribed by law.

Issued on: 6/13/2013

Expires on: 3/31/2014

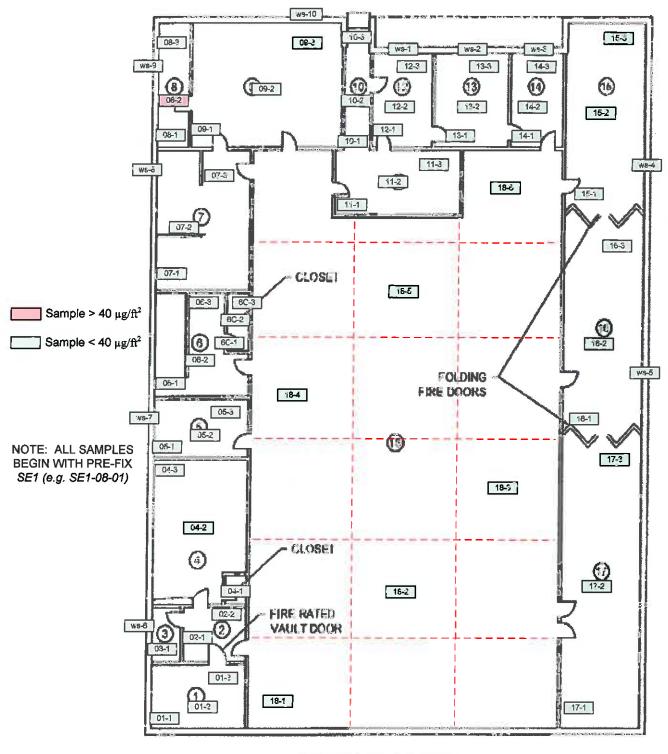
Division Director
Air Quality Division



Environmental Programs Manager Air Quality Division



### LEAD WIPE TESTING – POST REMEDIATION DATE OF TESTING – 11/6/2014



**BRISTOW ARMORY** 



## Environmental Chemistry Analysis Report

**OuanTEM Set ID:** 

243690

Date Received:

11/07/14

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

11/11/2014

AIHA ID: 101352

Client:

Enercon Services, Inc.

1601 Northwest Expressway

**Suite 1000** 

Oklahoma City, OK 73118

Acct. No.:

A845

Project:

**Bristow Armory** 

Location:

700 W. 5th St., Bristow, OK

Project No.: N/A

QuanTEM				V	Reporting	1.0	Date/Time	
ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
001	SE1-01-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
002	SE1-01-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
003	SE1-01-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
.004	SE1-02-01	Wipe	Lead -	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
005	SE1-02-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
006	SE1-03-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
007	SE1-04-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
800	SE1-04-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
009	SE1-04-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
010	SE1-05-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
011	SE1-05-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
012	SE1-05-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
013	SE1-06-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
014	SE1-06-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
015	SE1-06-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
016	SE-06C-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
017	SE-06C-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
		-						

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

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## **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

243690

Date Received:

11/07/14

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

11/11/2014

AIHA ID: 101352

Client:

Enercon Services, Inc.

1601 Northwest Expressway

Suite 1000

Oklahoma City, OK 73118

Acct. No.:

A845

Project:

**Bristow Armory** 

Location:

700 W. 5th St., Bristow, OK

Project No.: N/A

Q	uanTEM					Reporting		Date/Time	
	ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
	018	SE-06C-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
	019	SE-07-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
	020	SE-07-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
	021	SE-07-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/07/14 14:30	W NIOSH 9100
	022	SE-08-01	Wipe	Lead	13.1	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	023	SE-08-02	Wipe	Lead	50.1	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	024	SE-08-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	025	SE-09-01	Wipe	Lead	36.4	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	026	SE-09-02	Wipe	Lead	20.0	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	027	SE-09-03	Wipe	Lead	38.1	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	028	SE1-10-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	029	SE1-10-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	030	SE1-10-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	031	SE1-11-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	032	SE1-11-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	033	SE1-11-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
	034	SE-12-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
							_ <u>-</u>		

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

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## **Environmental Chemistry Analysis Report**

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Date Received:

11/07/14

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

11/11/2014

AIHA ID: 101352

Client:

Enercon Services, Inc.

1601 Northwest Expressway

**Suite 1000** 

Oklahoma City, OK 73118

Acct. No.:

A845

Project:

**Bristow Armory** 

Location:

700 W. 5th St., Bristow, OK

Project No.: N/A

QuanTEM		15			Reporting		Date/Time	
ID	Client ID	Matrix	Parameter	Results	Limits	Units	Analyzed	Method
¥30			52					
035	SE-12-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
036	SE-12-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
037	SE-13-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
038	SE-13-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
039	SE-13-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
040	SE-14-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
041	SE-14-02	Wipe	Lead	11.4	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
042	SE-14-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
043	SE-15-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
044	SE-15-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
<sup>©</sup> 045	SE-15-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
046	SE1-16-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
047	SE1-16-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
048	SE1-16-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
049	SE1-17-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
050	SE1-17-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
051	SE1-17-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100

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

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## **Environmental Chemistry Analysis Report**

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243690

Date Received:

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Sherrie Leftwich

Date Sampled:

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Analyst:

BM

Date of Report:

11/11/2014

AIHA ID: 101352

Client:

Enercon Services, Inc.

1601 Northwest Expressway

Suite 1000

Oklahoma City, OK 73118

Acct. No.:

A845 ·

Project:

**Bristow Armory** 

Location:

700 W. 5th St., Bristow, OK

Project No.: N/A

QuanTEM ID	Client ID	Matrix	Parameter	11	Results	Reporting Limits	Units	Date/Time Analyzed	Method
052	SE-18-01	Wipe	Lead		<9.00	- 9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
053	SE-18-02	Wipe	Lead		<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
054	SE-18-03	Wipe	Lead		<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
055	SE-18-04	Wipe	Lead		<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
056	SE-18-05	Wipe	Lead		<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
057	SE-18-06	Wipe	Lead		<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
058	SE-WS-01	Wipe	Lead		<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
059	SE-WS-02	Wipe	Lead		13.7	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
060	SE-WS-03	Wipe	Lead		<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
061	SE-WS-04	Wipe	Lead		15.3	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
062	SE-WS-06	Wipe	Lead		25.6	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
063	SE-WS-07	Wipe	Lead		9.39	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
064	SE-WS-08	Wipe	Lead		<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
065	SE-WS-09	Wipe	Lead		<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
066	SE-WS-10.	Wipe	Lead		<9.00	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100
067	SE1-WS-05	Wipe	Lead		18.0	9	ug/sq. Ft.	11/10/14 9:45	W NIOSH 9100

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

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# Environmental Chemistry Analysis Report

QuanTEM Set ID:

243690

Date Received:

11/07/14

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

BM

Date of Report:

11/11/2014

AIHA ID: 101352

Client:

Enercon Services, Inc.

1601 Northwest Expressway

**Suite 1000** 

Oklahoma City, OK 73118

Acct. No.:

A845

Project:

**Bristow Armory** 

Location:

700 W. 5th St., Bristow, OK

Project No.:

**QuanTEM** 

ID

Client ID

Matrix

**Parameter** 

Results

Reporting

Limits

Units

Date/Time

Analyzed

Method

Authorized Signature:

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

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# Supplemental Report QAQC Results

QA ID: Test: 12518

Lead

Date: Matrix: 11/7/2014 Wipe

Lab Number: Approved By: 243690

**Approved By:** Benton Miller **Date Approved:** 11/7/2014

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	0.99	1.1
RLVS	0.144	0,213	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	5.455	4.898	89.8	5.249	96.2	6.9
MS-W1	0.000	5.455	5.586	102.4	5.391	98.8	3.6

### Supplemental Report **QAQC** Results

Wipe

QA ID: Test:

12519 Lead

Date:

Matrix:

11/10/2014

Lab Number;

243690

Approved By:

Carter Cox

**Date Approved:** 11/10/2014

Notes:

### Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

### Standards Data:

Standard	Low Limit	Obtained	High Limit
CCV	4.5	5	5.5
FCV	4.5	4.8	5.5
ICV	0.9	0.98	1.1
RLVS	0.144	0.195	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	5,433	5.259	96.8	5.476	100.8	4.1

Authorized Signature:



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

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Page 1 of

Lab No. LEGAL DOCUMENT - PLEASE PRINT LEGIBLY

Ment Results (E) one box Surface / Dust Wipes **Bulk Miscellaneous** THE WASHINGTIME DATE & TIME QuanTEM Website Paint Chips Air Cassette Same Day 24 - Hour Other EMAIL Accept 중 m ۵ يبا ա<mark>მ / cա</mark>չ eu / Brl <sup>2</sup>11/ 6<sub>4</sub>1 Project Location: 700 W. 5TH ST., BRISTOW, OK ] / 6w Kowa 96 1M **BRISTOW ARMORY** Wdd 200 94 O O O O O C O C C O Project Name: EPACK@ENERCON.COM | Project ID: Cell Phone: (405) 414-5303 (405) 722-7693 Rooms 2 & 3 (Per B. Downs) E-mail: Rm. 1 3 Company: ENERCON SERVICES, INC SE1-01-01 • SE1-01-02 • SE1-02-02 • SE1-02-01 • SE1-04-02 • SE1-04-01 • SE1-01-03 SE1-03-01 • E. PACK XXXX XXX XXXX Sampled Account #: Contact: ന 'n \$ 9 00 6

SATURDAY SAMPLE DELIVERY - CALL TO SCHEDULE • Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517 • Mark Package 'Hold for Saturday Pickup'

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3-Day 5 - Day

SE1-04-03 •



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

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Page 2 of 5
Revise by Use Couly
Lab No. 243690

SET-05-01	Company:	ENERCON SERVICES, INC		Project Name: BRISTOW ARMORY	Project	Project Location:	W 002	T.	t t	
SET-05-01 Rm 6 SET-05-02 Rm 6 SET-05-03 Rm 6 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 6 SET-06-03 Rm 6 SET-06-03 Rm 6 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 7 SET-06-03 Rm 8 SET-06-03 Rm 7 SET-06-03 Rm 8 SET-06						1 10				AISTOW, OK
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	53	SE-09-02 •					_			
	8	SE-09-03 •								



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Page 3 of 5
For Lats Use Only
Lab No. 243690

9	ALIMON OF	ENERCON SERVICES, INC Project Name: BF	BRISTOW ARMORY	Project Location: 70	700 W FTU	L		
					. A.		DK.	OI., BRISTOW, OK
						3		Sample Matrix
	10 Characters Mag							Codes
					2.	·mɔ	4	Soll
-			q	/ 6 % 1	y/1		60	Paint Chips
13 SE	SE1-10-01 •	Rm. 10	d	M	5rt	-	U	Surface / Dust Wipes
14 SE	SE1-10-02 •	. HR.					۵	<b>Bulk Miscellaneous</b>
15 SE	SE1-10-03 •						E	Air Cassette
16 SE	SE1-11-01•	Rm 11						
17 SE	SE1-11-02 •							
18 SE	SE1-11-03 •							
19 SE	SE-12-01	Rm 12						
20 SE	SE-12-02 •							
21 SE	SE-12-03 •							÷
22 SE	SE-13-01 •	Rm. 13						
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SE	SE-14-03 •							
28 SE	SE-15-01 •	Rm. 15						
SE	SE-15-02 •							
30 SE	SE-15-03 •							



Project Information

# **LEAD CHAIN OF CUSTODY**

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

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Page 4 of 5.
RicLab Use Only
Lab No. 243690

Surface / Dust Wipes **Bulk Miscellaneous** Sample Matrix Project Location: 700 W. 5TH ST., BRISTOW, OK Paint Chips Air Cassette ш Mary 68 Chill box only. ա<mark>ð / cա</mark>շ EW / 61 145 /fts 1 / Bu % 1M Wdd qd Project Name: BRISTOW ARMORY Window Sill Rm. 16 Rm. 18 Rm. 17 **ENERCON SERVICES, INC** SE-WS-07 • SE-WS-04 • SE1-16-01 • SE1-16-02 SE1-16-03 • SE1-17-01 • SE-WS-01 • SE-WS-06 • SE1-17-03 • SE-18-01 . SE-18-05 • SE1-17-02 • SE-18-02 • SE-18-03 • SE-18-04 • SE-WS-02 • SE-18-06 • SE-WS-03 Сотралу: 2 14 15 16 8 9 17 2 7 22 33 24 25 **5**6 27 8 29 30

SS

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Page & of 5

Lab No. 245690

	COMPANY: ENERCON SERVICES, INC		Project Name: BRISTOW ARMORY	Project Location:		700 W 5TH	H AT	ST BDICTOM ON	
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\* Added to Coc, 8nd



## **LEAD WIPE TESTING - POST REMEDIATION** DATE OF RE-TESTING - 11/17/2014

NOTE: RE-SAMPLES IN RM. 8 (SHOWN HERE IN BOLD, RED NUMERALS) ARE **DESIGNATED IN THE** LAB REPORT AND **ELSEWHERE WITH** THE PRE-FIX "SE2"

(9) 10 (3) 1 (15) 1 7 CLOSET (6) ] Sample < 40 μg/ft² FOLDING . FIRE DOORS (5) (8) CLOSET (4) 1 FIRE RATED VAULT DOOR (3) ①

**BRISTOW ARMORY** 



# **Environmental Chemistry Analysis Report**

QuanTEM Set ID:

243974

Date Received:

11/17/14

Received By:

Sherrie Leftwich

Date Sampled:

Time Sampled:

Analyst:

ВМ

Date of Report:

DIAI

11/18/2014

AIHA ID: 101352

Client:

Enercon Services, Inc.

1601 Northwest Expressway

**Suite 1000** 

Oklahoma City, OK 73118

Acct. No.:

A845

Project:

**Bristow Armory** 

Location:

700 W. 5th St., Bristow, OK

Project No.:

N/A

QuanTEM ID	Client ID	Matrix	Parameter	Results	Reporting Limits	Units	Date/Time Analyzed	Method
001	SE2-08-01	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/18/14 14:20	W NIOSH 9100
002	SE2-08-02	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/18/14 14:20	W NIOSH 9100
003	SE2-08-03	Wipe	Lead	<9.00	9	ug/sq. Ft.	11/18/14 14:20	W NIOSH 9100

Authorized Signature:

V= 2.

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.

## **Supplemental Report** QAQC Results

QA ID: Test:

12540

Lead

Date: Matrix: 11/18/2014

Wipe

Lab Number:

243974

Approved By:

Benton Miller

Date Approved: 11/18/2014

Notes:

### Blank Data:

Type of Blank	Blank Value
FCB	0
Matrix Blank	0

### Standards Data:

Standard	Low Limit	Obtained	High Limit
ccv	4.5	5.4	5.5
FCV	4.5	5.3	5.5
ICV	0.9	1.04	1.1
RLVS	0.144	0.213	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	5.433	5.110	94.0	5.303	97.6	3.7

Authorized Signature:

Benton Miller, Analyst

(



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Accept Reject	QuanTEM Website	7			DAYE & STAFF				Units (FONEbox only) Sangle Marix .		/ft²/ / m²/ ( ©	6rl	V D Bulk Miscellaneous	Z Air Cassette	>			Samo Dav	24-Hour	
Project Information	Project Name: (781970 9/2 MOR)	Project Location: 700 W. 5th ST. BRYDEA	Project ID:		VIA RECEIVED BY	JON ALVIOL		STED SERVICES. (Please of the Appropriate Boxes)		eW e	W. W. W. W. W. W. W. W. W. W. W. W. W. W	M dd	0	0	3					
mation	14 C Phone: 165 772 - 7693		7		DATE & TIME	11/11/14 1450 HAL		REQUESTED SERVICES: (Preas		Sample Description Volume Vo			Tecles 120-th		4					
Contact Information	CHERC	Contact: & . PACK	Account #:	ompled by:	RELINQUISHED 8Y	Z-70	, io			Sample ID Sample I			1111	70-	4 -03 4					

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