TARGETED BROWNFIELDS ASSESSMENT (TBA)

PHASE II ENVIRONMENTAL SITE ASSESSMENT (ESA)

(Asbestos / Lead-Based Paint / Other Regulated Materials Surveys)

FORMER HOWARD COUNTY HOSPITAL BUILDING

800 West Leslie Street
NASHVILLE, HOWARD COUNTY, ARKANSAS 71852

PREPARED FOR:

US ARMY CORPS OF ENGINEERS – TULSA DISTRICT
1645 SOUTH 101ST EAST AVENUE
TULSA, OKLAHOMA 74128-4813

APRIL 20, 2012

PREPARED BY:

ALL CONSULTING
GOVERNMENT RELATIONS · ENERGY · PLANNING · TECHNOLOGY
ENGINEERING · ENVIRONMENTAL

1718 SOUTH CHEYENNE AVENUE
TULSA, OKLAHOMA 74119
PHONE (918) 382-7581 & FAX (918) 382-7582
EMAIL: CMCCOMAS@ALL-LLC.COM

EXECUTIVE SUMMARY

This Phase II Environmental Site Assessment (ESA) Report was prepared for the United States Army Corps of Engineers (USACE), Tulsa District, by ALL Consulting (ALL), under Contract No. W912BV-09-D-2026, Task Order 0011. This project was funded by the U.S. Environmental Protection Agency (USEPA) Region 6 and was tasked by USEPA to USACE-Tulsa District in response to a request from Mr. Jimmy Parker, Director for the Southwestern Arkansas Planning and Development District (SWAPDD) on behalf of Howard County, for a Phase I ESA through the USEPA Targeted Brownfields Assessment (TBA) program. This Report describes the field activities that were carried out to perform a Phase II ESA on the former Howard County Hospital in Nashville, Arkansas.

The purpose of this Phase II ESA was to evaluate the property and to sample the potential sources of contamination. The interior of the building was found to contain Asbestos Containing Material (ACM), Lead Based Paint (LBP) material, and Other Regulated Materials (ORM) such as mercury containing thermostats, fluorescent light bulbs, and fluorescent ballasts potentially containing polychlorinated biphenyls (PCBs). No regulated materials were discovered on the exterior of the building, with the exception of Exterior Window Putty, which is a regulated ACM.

This report briefly describes the location and setting of the Site that is the subject of this investigation. It also presents a discussion of the field activities performed during the Phase II ESA and the results of the sampling activities and inspections. The field activities performed as part of the Phase II ESA included inspection and sampling for ACM, inspection and sampling for LBP, and investigation and verification of ORMs. The following discussion is a summary of the field activities conducted by ALL and its subcontractor, Environmental Enterprise Group, Inc. (EEG), on February 6 and 7, 2012:

- Category I non-friable ACM was not identified in the building during the inspection. Category I Non-friable materials that are not RACM may remain during demolition or renovation activities as long as there are no visible emissions and that they are not subjected to sanding, grinding, cutting, or drilling.

- Category II Non-Friable ACM was identified in the Floor Tile and Mastic, Covebase Mastic, Pipe Mastic, Vinyl Floor Tile, Black Tar Pipe Wrap, Exterior Soffit Panels, Exterior Window Putty, Fire Doors, Metal-bestos Flue, and Exhaust Stack. In most cases, the non-friable ACM can be managed in place with minimal regulatory requirements as long as the material is in a non-crumbling or dust producing state. Continued deterioration of the vinyl floor tiles may create a situation whereby the tiles could be reclassified as RACM.
- RACM was identified in the building in the Covebase Mastic, Floor Tile and Duct Mastic, Vinyl Floor Tile, Spray-Applied Ceiling Material (Type I and Type II), Vibration Joint Cloth, Boiler Breaching, Refractory Mud, Black Tar Pipe Wrap, Exterior Soffit Panels, Boiler Gaskets, Condensate Tank Insulation, High-Pressure Steam Pipe Insulation, Pipe Insulation, Fire Doors, Metal-bestos Flue, Exhaust Stack, and Exterior Window Putty. The management of RACM is governed by OSHA and ADEQ regulations, as this material can become easily airborne. The removal, repair, or encapsulation of RACM requires that the employer follows the removal and training requirements of OSHA 29 CFR 1926.1101 for Class I work activities and ADEQ asbestos rules. Specific management requirements for RACM are presented in the Results Section of this report.
- Lead-Based Paint (LBP) was identified above the permissible level in the interior and exterior paint in several locations throughout the buildings. Additionally, the building contained five (5) areas (2 - CT scan rooms and 3 - X-Ray rooms) with lead-lined sheetrock walls and doorways or lead-containing components. Management requirements for LBP are presented in the Results Section of this report.
- Other regulated materials (ORM) are present within the building. If properly removed and handled in accordance with the requirements stated in this report, the ORMs in the building present no restrictions to the reuse or demolition of the building.

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ACRONYMS

ACM	Asbestos Containing Material
ADEQ	Arkansas Department of Environmental Quality
ADH	Arkansas Department of Health
AHERA	Asbestos Hazard Emergency Response Act
ALL	ALL Consulting, LLC
APC&E	Arkansas Pollution Control and Ecology Commission
ASTM	American Society for Testing and Materials
CPSC	Consumer Product Safety Commission
EEG	Environmental Enterprise Group, Inc.
ELLAP	Environmental Lead Laboratory Accreditation Program
ESA	Environmental Site Assessment
HUD	US Department of Housing and Urban Development
LBP	Lead-Based Paint
LBPPPA	Lead-Based Paint Poison Prevention Act
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NVLAP	National Voluntary Laboratory Accreditation Program
ORM	Other Regulated Material
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyls
PCS	Performance Characterization Sheet
PEL	Permissible Exposure Limit
PLM	Polarized Light Microscopy
PMT	Pole-Mounted Transformers
PPE	Personal Protective Equipment
ppm	parts per million
QAPP	Quality Assurance Project Plan
RACM	Regulated Asbestos Containing Material
RCRA	Resource Conservation and Recovery Act
TBA	Targeted Brownfields Assessment
TCLP	Toxicity Characteristic Leachate Procedure
TSI	Thermal System Insulation
USACE	U.S. Army Corps of Engineers
USEPA	United States Environmental Protection Agency
XRF	X-ray Fluorescence

1. INTRODUCTION

1.1 Project Overview

This Phase II Environmental Site Assessment (ESA) Report was prepared for the United States Army Corps of Engineers (USACE), Tulsa District, by ALL Consulting (ALL), under Contract No. W912BV-09-D-2026, Task Order 0011. This ESA was funded by the United States Environmental Protection Agency's (USEPA) Targeted Brownfields Assessment (TBA) Program. The USEPA Region 6 Brownfields Team tasked USACE Tulsa District to execute the ESA. This Phase II ESA Report describes the field activities that were carried out to perform a Phase II ESA on the Former Howard County Hospital in the City of Nashville, Arkansas. The purpose of the Phase II ESA was to evaluate the property and to sample the potential sources of contamination identified in the Phase I ESA conducted by ALL in December, 2011.

1.2 Objectives

The primary objective of this investigation was to determine if on-site contamination poses a threat to human health or the environment. Field tasks performed as part of this Phase II ESA were inspections of the exteriors and interiors of the existing structures for Asbestos Containing Materials (ACM), Lead-Based Paint (LBP), and Other Regulated Materials (ORM).

The goals of the field activities were:

- To identify if ACM or LBP exist inside or on the exterior of the building above regulatory thresholds.
- To address whether potential contaminant concentrations present restrictions to the proposed use of the property.
- To determine if ORM (mercury switches, fluorescent ballasts containing polychlorinated biphenyls [PCBs], etc.) exist inside the building.
- To complete a Phase II ESA Report.

1.3 Site Description and Background

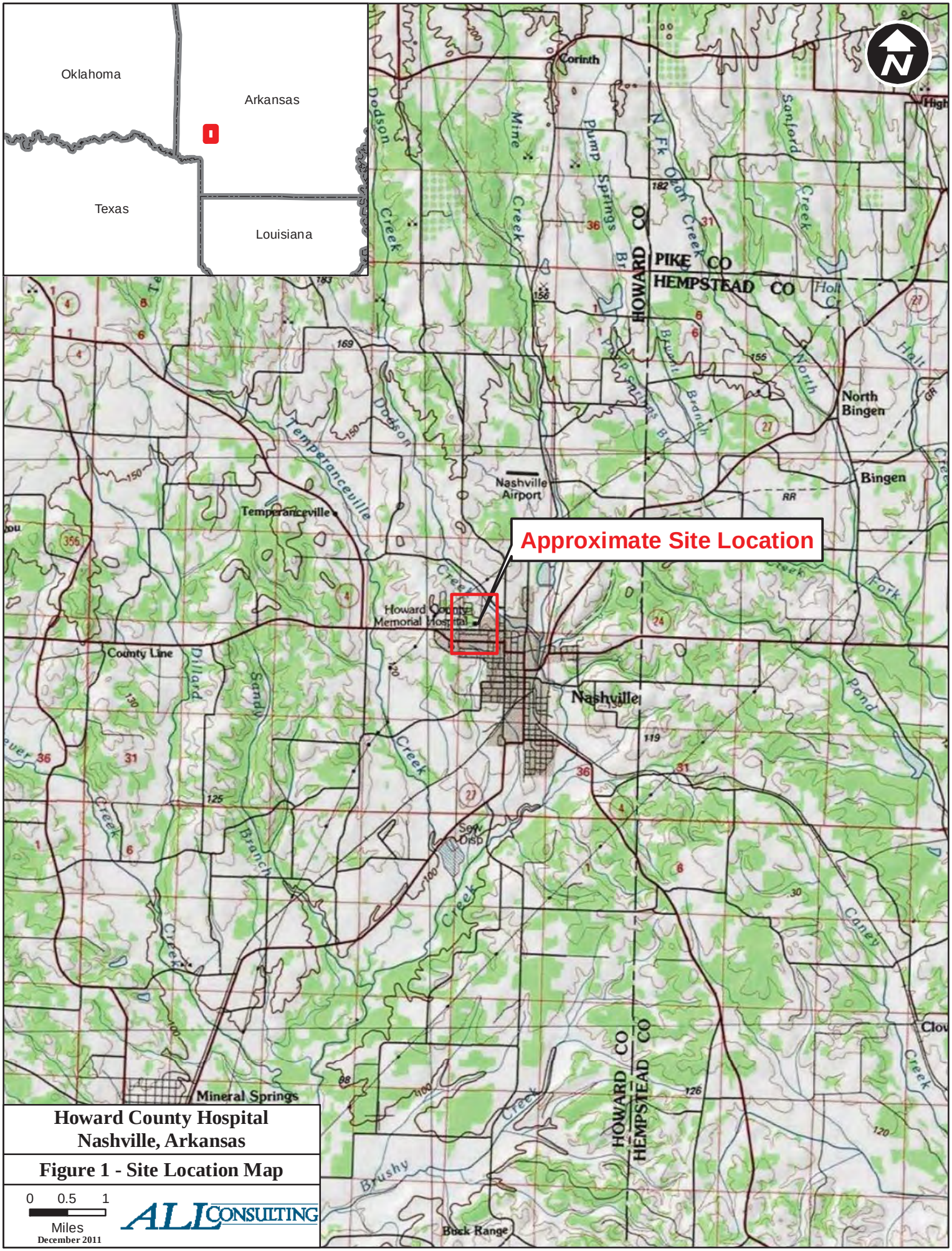
1.3.1 Site Location

The subject property, henceforth referred to as the "Site" is located approximately 0.50 miles northwest of downtown Nashville, Howard County, Arkansas, within an area consisting of residential properties, the Nashville Nursing Center, and the Nashville Junior High School (See **Figure 1**). The latitude and longitude coordinates for the Site are 33.952600; (33° 57' 9.4" N) and -93.857200; (93° 51' 26.0" W) (NAD83/WGS84). The legal description of the Site includes the southeast ¼ of the southwest ¼, Section 23, Township 9 South, Range 27 West of the Fifth Meridian.

1.3.2 Building Descriptions

The Site contains a single building known as the Former Howard County Hospital Building. A separate Doctor's Office Building located near the northwest corner of the hospital is not part of the Site and is not included as a part of this Phase I ESA. The original hospital building, completed in 1949, is an unoccupied two (2) story construction building with additions completed in 1961, 1972, and 1987. The building, which has an estimated 54,000 square feet, was closed in 2008. The building's exterior is a metal framework construction with a brick and concrete block façade on a concrete foundation. The interior walls consist of drywall, plaster, and concrete blocks supported by a metal framework.

The north entrance to the Site can be accessed from the northeastern corner of the property by way of a paved access road off North 8th Street and West Grove Street. The eastern portion of the Site can be accessed from a paved driveway off North 8th Street. The south entrance (front door) of the building can be accessed by a paved driveway and parking lot from West Leslie Street. The west entrance to the building can also be accessed from a driveway off of West Leslie Street (See **Figure 2**).



Howard County Hospital
Nashville, Arkansas

Figure 1 - Site Location Map

0 0.5 1
Miles
December 2011

ALI CONSULTING

Howard County Hospital
Nashville, Arkansas

Figure 2 - Site Layout Map

ALI CONSULTING

January 2012

2. FIELD ACTIVITIES

The field activities were conducted in general accordance with the *Quality Assurance Project Plan (QAPP) for Targeted Brownfields Assessment (TBA) Phase II Environmental Site Assessment (ESA)Former Howard County Hospital.* (ALL, 2012b) prepared in January 2012. The Phase II ESA fieldwork was completed February 7, 2012.

The Phase II ESA included: A visual inspection of suspect ACM and collection of 239 bulk suspect ACM samples from 89 homogeneous areas for analyses; 1681 X-ray Fluorescence (XRF) screenings of painted walls and other surfaces and collection of 103 suspect LBP paint chip samples for analyses; and a verification of ORM. This section describes the field data collection and sampling procedures.

2.1 Sampling Methods and Procedures

2.1.1 Asbestos Inspection and Sampling

Mr. James Waldo of Environmental Enterprise Group (EEG), Inc., an USEPA accredited and Arkansas Department of Environmental Quality (ADEQ) licensed asbestos inspector/management planner (ADEQ License #012679), performed the inspection on February 6, 2012. A copy of the site plans, inspection report, analytical data, and relevant inspector certifications are provided in **Appendix A**. (EEG, 2012a)

The inspections, sampling surveys, and laboratory analytical procedures were conducted in accordance with the USEPA, National Emissions Standards for Hazardous Air Pollutants (NESHAP) rules and regulations. The inspection and sampling program also followed the guidelines of the Asbestos Hazard Emergency Response Act (AHERA), and the Occupational Safety & Health Administration's (OSHA's) Asbestos in Construction Standard (29 CR 1926.1101). In September 2011, the Arkansas Pollution Control and Ecology (APC&E) Commission adopted the USEPA's - NESHAP regulations under the Arkansas Asbestos Abatement Regulations (Regulation 21) which delegated enforcement authority to the Air Division of ADEQ. Section 61.145(a) of the NESHAP regulations states that prior to commencement of the demolition or renovation of a facility, a thorough inspection of the

affected part or parts of a facility is required to determine the presence of all asbestos, including Category I and Category II, non-friable and friable, ACM. The objective of this inspection was to perform an asbestos survey to determine the presence of all ACM within the building for NESHAP compliance and worker protection.

The representative ACM surveys included the following actions:

1. A survey all of the interior and exterior areas of the buildings.
2. Identification of suspect ACM using USEPA - AHERA and ADEQ protocols.
3. Collection and analyses of bulk samples of suspect friable and non-friable ACM.
4. Quantifying ACM, including a description of material conditions and locations, preparation of sample location drawings, preparation of ACM location drawings, and collection of photographic documentation of suspected and identified ACM.

During the on-site inspection, the physical characteristics of suspect ACM were visually assessed based on homogeneous areas. Homogeneous areas are those which are considered uniform by color, texture, construction, date of application, and in general appearance. Each observed homogeneous area of suspect ACM was assigned a unique identification number.

The collected samples were transported to EEG Laboratories, a National Voluntary Laboratory Accreditation Program (NVLAP) laboratory, for analysis under chain of custody protocol and analyzed using Polarized Light Microscopy (PLM) in accordance with EPA Method 600R-93/116, except for drywall systems which were analyzed by PLM - 400 Point Count. If the presence of asbestos was confirmed, the percentage of asbestos containing material versus non-asbestos containing material was visually estimated by a combination of Polarized Light and Stereo Microscope.

ADEQ does not have an accreditation licensing program for asbestos laboratories, but does accept all NVLAP accredited facilities. Copies of EEG's NVLAP accreditation certificate, individual Asbestos Inspector's License, individual Project Designer's License, the laboratory analysis reports, and the chain-of-custody forms are provided in the *Asbestos Investigation Report* in **Appendix A**. If the presence of asbestos was confirmed, the percentage of asbestos containing material versus non-asbestos containing material was visually estimated by a combination of Polarized Light and Stereo Microscope.

For purposes of renovation and demolition, homogeneous areas of suspect asbestos containing materials are classified according to NESHAP rules under 40 CFR 61.Subpart M, by whether the material is friable ACM, Category I Non-friable ACM, or Category II Non-friable ACM.

- Friable ACM is defined by NESHAP rules as any material containing more than one percent (1%) asbestos as determined by PLM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.

- Category I Non-friable ACM is defined by NESHAP rules as any asbestos containing packing, gasket, construction mastic, resilient floor covering, or asphalt roofing product that contains more than one percent (1%) asbestos as determined by PLM. The APC&E has the definition of resilient floor covering as asbestos containing floor tile, including asphalt and vinyl floor tile, and sheet vinyl floor covering containing more than one percent (1%) asbestos as determined using PLM.

- Category II Non-friable ACM is defined by NESHAP rules as any material, excluding Category I non-friable ACM, containing more than one percent (1%) asbestos as determined by PLM, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

According to Federal NESHAP regulations (40 CFR 61.145), regulated asbestos containing materials (RACM) must be removed prior to any demolition or renovation process that may disturb them. RACM can be defined as (a) all friable asbestos; (b) Category I non-friable ACM that has become friable; (c) Category I Non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading; or, (d) Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

In addition to classification of suspect materials into friable and non-friable materials, a determination of current condition was conducted as part of the physical assessment. Please note that the classification of condition by the inspector is representative of the material as viewed only during the on-site inspection. The condition of said materials can change very quickly when disturbed by contact, air erosion, or vibration damage after said inspection has been

completed.

The inspection and assessment was based on the following terms:

- Homogeneous areas are areas that are uniform by color, texture, construction/ application date, and general appearance.
- Functional space: Room use or area use.

All suspect materials were placed in one of the following four categories of condition:

- Poor: The binding of the material is losing its integrity as indicated by peeling, cracking, or crumbling of the material.
- Significantly damaged: Material damaged, blistered, deteriorated, water stained over at least one tenth (10%) of its total area.
- Damaged: Material is damaged, blistered, deteriorated, water stained less than one tenth (10%) of its total area.
- Good: No visible damaged or deterioration.

Upon conclusion of the on-site inspection, there were 89 homogeneous areas identified for sample collection and analysis from the subject site. The collected samples were sent to a NVLAP laboratory for analysis under chain of custody protocol. A total of 239 samples were analyzed from the 89 homogeneous areas (EEG, 2012b).

2.1.2 LBP Inspection and Sampling

The LBP inspection was conducted by EEG, following the protocol established in the QAPP (ALL, 2012b). The LBP survey was performed by EEG Lead Risk Inspector, Mr. Michael E. Cole, Arkansas Department of Health (ADH) License #: 000319, on February 6-7, 2012. The work plan called for XRF testing of major painted surfaces throughout the subject site and one (1) paint chip sample for every ten (10) XRF samples. A Niton portable XRF instrument was utilized to conduct the sample assays. The XRF instrument was used in accordance with the manufacturer's requirements and the equipment's Performance Characteristic Sheet (PCS). The XRF sampling protocol is a non-destructive testing method, which reduces the requirements for collection of bulk paint chip samples and subsequent laboratory analysis. The results were reported in mg/cm^2. (EEG, 2012b)

EEG collected a total of 1681 XRF screenings (including calibration checks) and 103 paint chip samples. The actual number of paint chip samples collected was at a lower frequency than 1 to 10 due to similar surfaces in identical hospital rooms already being represented, or because a location screened by XRF did not have paint to collect (lead-lined sheetrock walls and doorways or lead-containing components). All assay tests for LBP were taken with a Niton XRF Spectrometer Model XLp300, Serial Number 25752. The paint chip samples were submitted for laboratory lead analysis by USEPA Method 7420 to Schneider Laboratories Global, Inc. in Richmond, Virginia. Schneider is accredited by the Environmental Lead Laboratory Accreditation Program (ELLAP). A copy of the *Lead-Based Paint Inspection* report can be found in **Appendix B.**

2.1.3 ORM Verification

A verification of ORM found during the Phase I ESA (ALL, 2012a) was conducted by Mr. Ben Bockelmann on February 6-7, 2012, All ORM reported in the Phase I inspection were still present.

2.2 Investigation Derived Waste

Investigation derived waste generated during the Phase II ESA activities were minimal and required no additional management.

2.3 Deviations from Quality Assurance Project Plan

There were three (3) significant deviations from the QAPP (ALL 2012b):

- More samples were collected and analyzed for ACM than the QAPP required. Although not required, the extra samples contributed to a better evaluation of the building.
- More samples were collected and analyzed for LBP than the QAPP required. Although not required, the extra samples contributed to a better evaluation of the building.
- The QAPP required two (2) surface soil tests near the site of a former aboveground storage tank. No soil tests were collected because the tank was determined to be an underground storage tank that had been properly closed according to ADEQ regulations.

3. RESULTS AND FINDINGS

This section of the document summarizes the findings for the fieldwork conducted on February 6-7, 2012. Completed field tasks for the Phase II ESA at the Site included the inspection and sampling for suspected ACM, the inspection and sampling for suspected LBP; and the verification of ORM.

3.1 Asbestos Inspection and Sampling

Upon conclusion of the on-site inspection, there were 89 homogeneous areas identified for sample collection and analysis from the subject site. The collected samples were sent to a NVLAP laboratory for analysis under the chain of custody protocol. A total of 239 bulk samples were analyzed from the 89 homogeneous areas. The following asbestos containing materials were identified above the USEPA threshold of one percent (1%) as determined by PLM. A summary of the PLM Laboratory Analysis Reports and an Asbestos Sample Location Map can be found in **Appendix B.**

3.1.1 Category I Non-Friable ACM

The following Category I non-friable materials were identified from the inspection process and are currently classified as Category I non-friable materials:

- None

Category I Non-friable materials that are not RACM may remain during demolition or renovation activities as long as there are no visible emissions and that they are not subjected to sanding, grinding, cutting, or drilling. All Category I non-friable materials that have become friable or are subject to drilling, sawing, cutting, or pulverizing during demolition or renovation activities must be removed prior to any demolition or renovation activities as RACM.

3.1.2 Category II Non-friable Materials

The following Category II non-friable materials were identified during the inspection process:

Original 1949 Building

- ACM White Soffit Panels – Exterior Soffit
- Off White 12" x 12" Vinyl Floor Tile with Black Mastic – Located throughout the 1st and 2nd floors
- Black Tar Pipe Wrap – Located in all Uni-vent HVAC wall units throughout
- Brown Covebase Mastic – Located in the 2nd Floor Hallway
- Off White Pipe Mastic – Located above Drop Ceilings throughout

1961 Addition

- ACM White Soffit Panels – Exterior Soffit
- Tan 9" x 9" Vinyl Floor Tile with Black Mastic – Lobby Area
- White Pipe Mastic Associated with Non-ACM Brown Insulation – Located in the Old Boiler Room and on all piping above ceilings
- Black Tar Pipe Wrap – Located in all Uni-vent HVAC wall units throughout
- Brown Floor Tile with Black Mastic under Non-ACM White 12″ x 12″ Floor Tile with Yellow Mastic – Located near Nurse's Station, in 2nd floor hallway, and Room 259

Surgery & North-South Wing

- Off White 12" x 12" Vinyl Floor Tile with Black Mastic – Located throughout the north-south wing and the surgery hallway in the north-south wing
- Tan/White 12" x 12" Vinyl Floor Tile with Black Mastic – Located in outpatient surgery recovery and the workroom in the north-south wing

Emergency, Radiology, & Physical Therapy (1987)

- Black Mastic under Non-ACM Tan 12" x 12" Vinyl Floor Tile – Located in the Emergency Room

Dialysis Center (1987)

- Blue 12" x 12" Vinyl Floor Tile with Black Mastic – Records Room

- Black/Brown Mastic under Non-ACM White/Blue 12" x 12" Vinyl Floor Tile – Located in the Bathroom and hallway

Various Locations

- Assumed ACM Fire Doors – Located at the entrance to all Mechanical Rooms and Stairwells
- Assumed ACM Metal-bestos Flue – The metal flue of the water heater within the 1961 Addition Boiler Room
- Assumed ACM Exhaust Stack – Off 1961 Addition Boiler Room
- ACM Tan Exterior Window Putty – Located on all exterior windows of the 1961 Addition

Federal and state NESHAP regulations state that Category II non-friable materials must be removed only prior to demolition or renovation activities that would crumble, pulverize, or reduce these items to powder. According to Federal OSHA regulations, these materials have to be removed or repaired by workers who have a minimum of 8-hours of OSHA Class II asbestos training and supervised by an individual who satisfies the accreditation requirements of the 5-day USEPA asbestos contractor/supervisor course.

3.1.3 Regulated Asbestos Containing Materials

The following RACM were identified during the inspection process:

1961 Addition

- White/Brown Spray-Applied Ceiling Material Type I – Throughout the 1st and 2nd floor areas of the 1961 addition of the building, excluding the 1st floor kitchen
- Off White Spray-Applied Ceiling Material Type II – Located in the lobby area and exterior overhang of the 1961 addition
- White Vibration Joint Cloth – Mechanical Room #11
- White Boiler Breaching – Located on the boiler in the Old Boiler Room
- Gray/Brown Refractory Mud – Inside the boiler located in the Old Boiler Room

Main Boiler Room

- Gray/White Boiler Breeching – Located on the boilers in the Main Boiler Room
- Brown Boiler Gasket – Located on the boilers in the Main Boiler Room
- White/Off-White Condensate Tank Insulation – Located in the Main Boiler Room
- White High-Pressure Steam Pipe Insulation – Located in the Main Boiler Room
- White Hot Water Pipe Insulation – Located in the Main Boiler Room
- White Condensate Pipe Insulation – Located in the Main Boiler Room

The removal, repair, or encapsulation of RACM requires that the employer follows the removal and training requirements of OSHA 29 CFR 1926.1101 for Class I work activities and ADEQ asbestos rules.

3.1.4 Management of Asbestos

Asbestos is not always an immediate hazard. In fact, if asbestos can be maintained in good condition, it is recommended that it be left alone and periodic surveillance performed to monitor its condition. It is only when asbestos containing materials are disturbed for demolition or renovation purposes or the materials become damaged that it becomes a hazard. When the materials become damaged, the fibers separate and may then become airborne and exceed the Federal OSHA Permissible Exposure Limit of 0.1 fiber/cubic centimeter of air.

In the asbestos industry, the term 'friable' is used to describe asbestos that can be reduced to dust by hand pressure. 'Non-friable' means asbestos that is too hard to be reduced to dust by hand. Non-friable materials, such as Transite siding and floor tiles are not regulated by the State of Arkansas provided it does not become friable or classified as RACM. Machine grinding, sanding, and dry-buffing are ways of causing non-friable materials to become RACM.

There is no federal, state, or local law that states asbestos has to be removed. It is only when the material can no longer be maintained in good condition and/or the airborne concentrations of asbestos are measured to be too high (above the Federal or State PEL), or when the building is to be demolished or renovated, that removal may become the only option.

In accordance with ADEQ Regulations, the owner or operator need not remove ACM before demolition provided:

1. It is Category I non-friable ACM that is not in poor condition and is not friable;

2. It is on a facility component that is encased in concrete or other similarly hard material and is adequately wet whenever exposed during demolition;

3. It was not accessible for testing and was, therefore, not discovered until after demolition began and, as a result of the demolition, the material cannot be safely removed. If not removed for safety reasons, the exposed RACM and any asbestos-contaminated debris must be treated as asbestos-containing waste material and adequately wet at all times until disposed; or

4. It is Category II non-friable ACM and the probability is low that the materials will become crumbled, pulverized, or reduced to powder during demolition.

However, in the event the structures are to be removed in sections, actions required to separate the sections must be addressed where non-friable materials are disturbed in a manner that renders them friable. According to OSHA regulations, removal or repair of these materials must be done by workers who have had a minimum of 8-hours of OSHA Class II asbestos training and conducted under competent person supervision as stated in 29 CFR 1926.1101 (i.e. an USEPA accredited asbestos supervisor-level trained person).

In the State of Arkansas, friable and RACM may only be removed by Licensed Asbestos Abatement Contractors or Consultants, utilizing licensed workers and supervisors. All other non-friable materials that are not RACM can only be repaired, removed, or disturbed by workers who have had a minimum of 8-hours of OSHA Class II asbestos training and conducted under competent person supervision as stated in 29 CFR 1926.1101 (i.e. an USEPA accredited asbestos supervisor level trained person).

3.1.5 Exclusions

ALL's and EEG's performance was in keeping with the standard of care common for such NESHAP inspections, but the report shall not constitute a warranty against losses or costs

associated with unidentified ACM at any surveyed site due to lack of access or sample constraint. It should be recognized that the potential exists for ACM to be present in areas obstructed from view or inaccessible areas, such as areas behind 'hard' walls or ceilings, buried underground, or areas within highly discretionary spaces that could not be identified without implementing a more destructive sampling technique or putting the inspector in undue danger. This survey was limited to visible and accessible areas only.

3.2 LPB Inspection and Sampling

3.2.1 Introduction

Under the Lead-Based Paint Poison Protection Act (LBPPPA) and the US Consumer Product Safety Commission (CPSC), the permissible limit for lead in paint manufacturing was set at 600 parts per million (ppm) in 1978. The USEPA and the US Department of Housing and Urban Development (HUD) define lead-based paint for 'target housing and child occupied facilities' as paint containing lead levels equal to or greater than 5,000 ppm. As the LBPPPA/CPSC definition pertains to paint manufacture and the USEPA/HUD definition governs paint already applied to surfaces, the difference in the definitions does not result in any real-world conflicts. However, OSHA does not define lead-based paint, nor does it acknowledge any intrinsically safe levels of lead in paint. Painted surfaces that contain lead but do not meet either definition of lead-based paint are still governed by OSHA worker protection regulations. These regulations require exposure monitoring, respiratory protection, employee training, and medical monitoring (including blood tests) for workers who perform construction activities that disturb painted surfaces and/or exposure to a lead-based paint hazards exist.

In addition, the USEPA Resource Conservation and Recovery Act (RCRA) regulations set the limit of leachable lead in lead-containing waste at 5.0 ppm. Leachable lead means the amount of lead likely to leach from the waste into the surrounding soil of a landfill. This level is established by an analytical method called the toxicity characteristic leachate procedure (TCLP). Lead containing waste that equals or exceeds the RCRA limit must be transported to a hazardous waste treatment, storage, or disposal facility.

Lead containing waste shown to have a total lead content below 100 ppm cannot reach or exceed

the RCRA limit for leachable lead, and need not be analyzed by TCLP. Lead containing waste shown to have a total lead content equal to or exceeding 100 ppm may exceed the RCRA standard, and must be analyzed by TCLP prior to disposal.

3.2.2 Sampling Results

A copy of the *Lead Based Inspection Report,* which includes a list of the LBP assay tests results and the paint chip test analyses, is provided in **Appendix B** of this report. The results are organized and shown in sequence by sample number. All paint chip samples were sent to Schneider Laboratories, Inc. in Richmond, Virginia, for analysis using USEPA Method 7420, Atomic Absorption. Lead is reported in percent lead by weight (0.5% lead by weight = 5,000 ppm).

A Niton portable XRF instrument was utilized to conduct the sample assays. The XRF instrument was used in accordance with the manufacturer's requirements. A “Positive” refers to a sample that has lead concentration of equal to or greater than 1.0 mg/cm^2 by XRF reading or 0.5% by weight (5,000 ppm) by paint-chip analysis. “Negative” refers to a sample that has a lead concentration of less than 1.0 mg/cm^2 by XRF reading or 5,000 ppm by paint-chip analysis. The action level defined by HUD Guidelines is a lead concentration above the level of 1.0 mg/cm^2 when measured by XRF and 0.5% (5,000 ppm) by weight when measured by laboratory methods.

The following information is pertinent to this report:

1. Lead was banned in residential and commercial use paint in 1978.
2. The original hospital building was built in 1949 and two (2) additions were built in 1961 and 1972, and therefore, may contain LBP.
3. The exterior LBP XRF survey identified no substrates with LBP. No structural steel components were accessible for testing. Fourteen (14) exterior surfaces were identified as containing lead but the concentrations were not above the action levels for LBP. These exterior surfaces are identified by the XRF Reading number and by the material description in Section 5.3 of the *LBP Inspection Report* in **Appendix B**.

4. The interior LBP XRF survey identified ten (10) painted surfaces with lead concentrations greater than the Federal/State threshold of 1.0 mg/cm^2. Additionally, eleven (11) interior surfaces were identified as containing lead but the concentrations were not above the action levels for LBP. These interior surfaces are identified by the XRF Reading number and by the material description in Section 5.1 and Section 5.2 of the *LBP Inspection Report* in **Appendix B**.

5. There were 1681 XRF screenings conducted with 103 paint chip samples collected and analyzed. Lead levels equal to, or exceeding, the level of 1.0 mg/cm^2 or 0.5% (5,000 ppm) in XRF readings ***were found*** in the buildings. Of the 103 paint chip samples collected and submitted for analysis, nine (9) samples showed "Positive" readings. A complete list of positive readings equal to, or exceeding, 1.0 mg/cm^2 are listed in Section 5.4 of the *LBP Inspection Report* in **Appendix B**.

6. The building contained five (5) areas (2 - CT scan rooms and 3 - X-Ray rooms) with lead-lined sheetrock walls and doorways or lead-containing components. The XRF investigation of these five (5) areas revealed the presence of lead in twelve (12) surfaces. All twelve (12) samples were identified as containing lead in regulated concentrations. A complete list of the XRF readings and the surfaces tested can be found in Section 5.6 of the *LBP Inspection Report* in **Appendix B**.

7. HUD Guidelines classifies painted surface conditions using the following standards:

Table 3-1
HUD Guidelines

Type of Building Component	Intact	Fair	Poor
Exterior components with large surface areas	Entire surface is intact	Less than or equal to 10 square feet.	More than 10 square feet.
Interior components with large surface areas	Entire surface is intact.	Less than or equal to 2 square feet.	More than 2 square feet.
Interior and exterior components with small surface areas (window sills, baseboards, soffits, trim).	Entire surface is intact.	Less than or equal to 10 percent of the total surface area of the component.	More than 10 percent of the total surface area of the component.

3.2.3 LBP OSHA Requirements

There are no regulatory requirements mandating abatement of LBP in office buildings. Such regulations are in place only for residential buildings. The only regulations applicable to LBP issues in non-residential facilities are for worker protection, covered under Lead in Construction Standard 29 CFR 1926.62.

The general requirements include:

- OSHA action level for lead is 30 $\mu g/m^3$ and the PEL is 50 $\mu g/m^3$ both calculated as an 8-hour time-weighted average.
- Institute work practice controls of wet scraping, component replacement or other activity to reduce air dust and debris during lead paint removal. Have hand and face washing facilities available on-site. Notify other contractors/subcontractors about lead hazard at job-site.
- OSHA Lead training is only required for employees who are subjected to exposure to Lead at or above the action level on any day or who are subject to exposure to compounds which may cause skin or eye irritation.
- Medical surveillance is only required for employees who are subjected to exposure to lead at or above the action level on any day.

Specific Requirements:

- Contractor will be required to conduct an exposure assessment for the chosen work activities to see if they exceed the action limit of 30 m/cm^3.
- Protection of workers during assessment period shall include full body disposable coveralls (Tyveks or Kleenguard suits) and half-mask air purifying respirators with HEPA cartridges. Wet scraping of lead paint would be perceived as a low risk work activity and therefore only require a half-mask air purifying respirator. To wear a respirator an employee must be deemed medically fit to wear a respirator, be trained, be part of written respiratory program, and be fit tested for size and make of respirator.
- If the initial determination proves employee exposure is below the action level, further exposure determination need not be repeated unless there is a change in processes or

controls. No other requirements necessary and no Personal Protective Equipment (PPE) necessary.

- If employee exposure is at or above the action level, but at or below the PEL, the contractor must perform monitoring at least every 6 months and continue until at least two consecutive measurements—taken at least 7 days apart—are below the action level. In addition, training requirements according to 29 CFR 1926.62(l) which is typically an 8-hour course with annual refresher. PPE is not required unless above the PEL. Medical surveillance is not required at this level unless exposures occur at or above the action level for more than 30 days in any consecutive 12 months.
- If an employee exposure is at or above the PEL, the contractor must perform monitoring quarterly and continue until at least two consecutive measurements—taken at least 7 days apart—are at or below the PEL but at or above the action level. The contractor then must repeat and continue monitoring every 6 months to bring the exposure to or below the action level. Competent person supervision, full training, development of a compliance program, hygiene facilities, use of PPE including respirators, posting of warning signs, and medical surveillance kick in at this level.
- Waste disposal of LBP materials is not governed by OSHA and should be managed as described in Section 3.2.1.

3.3 Visual Inspection for ORM

Certain materials that would be classified as universal wastes for disposal purposes were identified within the building during the Phase I (ALL, 2012a) and verified as still being present during the Phase II ESA.

- Possible mercury-containing fluorescent lights were observed throughout the building. (See Appendix C – Photographs 9 and 10.) Possible PCB oil-containing light ballasts were also noted. The ballasts that were observed appeared to be intact and did not have signs of leakage. (See Appendix C - Photograph 11.) The light fixtures could pose a threat for environmental impact if not removed and disposed of according to current regulatory standards and practices.

- Possible mercury-containing heating and air conditioning control thermostats were noted throughout the building. The presence of mercury-containing devices could pose a threat for an environmental impact if not removed and disposed of in accordance with regulatory standards and practices.
- A leaky roof in the west wing of the building has caused the development of mold on the ceiling, walls, and floors. (See Appendix C - Photograph 13.) No tests were conducted to determine the type of mold present, but the mold does pose a potential threat to human health.
- A utility service room for the elevator (located on the north side of the building) contained a hydraulic pump for operating the elevator. The floor of the utility room was oily from an apparent leak of the pump. (See Appendix C - Photograph 21.) Absorbent materials, pads, and socks were observed on the floor in an apparent attempt to control and contain the spill. There was no sign that the spill had affected any areas outside of the utility room. However, the floor of the elevator shaft could not be accessed for a visual inspection. A mostly full, 5-gallon plastic container of hydraulic fluid was observed in the utility room. (See Appendix C - Photograph 22.)
- At the north side of the building were three (3) pole-mounted transformers (PMTs) on a single pole. The PMTs appeared to be intact and in good condition, but were not labeled as, "Non-PCB." No visible oil staining or leaks were observed during the onsite inspection. (See Appendix C – Photographs 3 and 4.)
- A medical waste incinerator was observed at the east end of the south wing of the building. (See Appendix C - Photographs 5 and 6.) The incinerator may have been used to incinerate pathogen-contaminated materials, radiological materials used for medical purposes, polyvinyl chloride (PVC) containing materials, medical-use metals, or other potentially hazardous materials.
- A Biohazard room is located adjacent to the medical waste incinerator. The room may have been used to house pathogen-contaminated materials, radiological materials, special medical-use metals, or other potentially hazardous materials. No materials were stored in the room.

No samples of ORMs were taken, but a summary of observations are as follows:

Table 3-2
ORM Descriptions

ORM TYPE	DESCRIPTION	LOCATION	CONDITION
Fluorescent light fixtures	Fluorescent light bulbs containing mercury. Some were marked as low mercury (green) lamps.	Found throughout the building.	Good
Fluorescent light fixture ballasts	NOT labeled "Non PCB"	Found throughout the building.	Good
Mercury Containing Switches	Possible mercury-containing thermostats or other mercury filled switches were discovered.	Found throughout the building.	Good
Mold	Black mold on ceilings, floors, and walls caused by roof leak.	West end of building.	Poor, mold heavy in some areas.
Hydraulic Fluid	Elevator hydraulic lift system leak.	Hallway on north side of building	Poor, visible staining on floor.
Pole-Mounted Transformers	Three (3) PMTs on a single pole. Not marked, "Non-PCB."	North side of building.	Good, no visible leaks or stains.
Medical Waste Incinerator	Small capacity incinerator with afterburner and stack.	East end of south wing.	Fair, some discoloration around access door.
Biohazard Room	Small room with controlled access.	East end of south wing adjacent to incinerator.	Good, no materials stored in room.

4. COST ESTIMATES

4.1 ACM Remedial Cost Estimates

Cost estimates for the removal, disposal, and management of the ACM from the Former Howard County Hospital building for are summarized in **Table 4-1** below**.**

Table 4-1
Total Cost Estimate for ACM

	COST ESTIMATE RANGE			
ACM TYPE*		**LOW**		**HIGH**
Floor Tiles	$	83,294	$	99,953
Applied Ceilinig Materials	$	67,488	$	80,986
Boiler Room and Pipe Insulation	$	27,050	$	32,460
Miscellaneous	$	54,055	$	64,866
Sub Total	$	231,887	$	278,265
MANAGEMENT PLAN				
Asbestos Abatement Project Specification	$	5,500	$	6,600
Air Monitoring and Project Management	$	49,500	$	59,400
ADEQ, AHD, and Other Fees	$	2,500	$	2,500
Sub Total	$	57,500	$	68,500
PROJECT TOTAL ESTIMATE	**$**	**289,387**	**$**	**346,765**

4.2 LBP Remedial Cost Estimates

Cost estimates for the removal, disposal, and management of the LBP from the Former Howard County Hospital building for are summarized in **Table 4-2** below**.**

Table 4-2
Total Cost Estimate for LBP

	COST ESTIMATE RANGE			
LBP and Lead Containing Materials		**LOW**		**HIGH**
Sheetrock Walls - Lead Lined	$	10,000	$	12,000
Doors and Frames - Lead Lined	$	2,100	$	2,520
Boilers - Two (2) @ $5,000 each	$	10,000	$	12,000
TOTAL	**$**	**22,100**	**$**	**26,520**

5. SUMMARY AND CONCLUSIONS

The following discussion presents the summary and conclusions from the field activities conducted by ALL and its subcontractor, EEG, from February 6 and 7, 2012. Completed field tasks for the Phase II ESA conducted on the Former Howard County Hospital building included the inspection and sampling for ACM, the inspection and sampling for LBP, and the verification of ORMs. Analytical results from the ACM and LBP surveys performed at the former Howard County Hospital building in Nashville, Arkansas, are included in the **Appendices**.

5.1 Asbestos Containing Materials

5.1.1 Category I Non-Friable ACM

The following Category I non-friable materials were identified from the inspection process and are currently classified as Category I non-friable materials:

- None

5.1.2 Category II Non-friable Materials

The following Category II non-friable materials were identified during the inspection process:

Original 1949 Building

- ACM White Soffit Panels – Exterior Soffit
- Off White 12" x 12" Vinyl Floor Tile with Black Mastic – Located throughout the 1st and 2nd floors
- Black Tar Pipe Wrap – Located in all Uni-vent HVAC wall units throughout
- Brown Covebase Mastic – Located in the 2nd Floor Hallway
- Off White Pipe Mastic – Located above Drop Ceilings throughout

1961 Addition

- ACM White Soffit Panels – Exterior Soffit
- Tan 9" x 9" Vinyl Floor Tile with Black Mastic – Lobby Area

- White Pipe Mastic Associated with Non-ACM Brown Insulation – Located in the Old Boiler Room and on all piping above ceilings
- Black Tar Pipe Wrap – Located in all Uni-vent HVAC wall units throughout
- Brown Floor Tile with Black Mastic under Non-ACM White 12″ x 12″ Floor Tile with Yellow Mastic – Located near Nurse's Station, in 2nd floor hallway, and Room 259

Surgery & North-South Wing

- Off White 12" x 12" Vinyl Floor Tile with Black Mastic – Located throughout the north-south wing and the surgery hallway in the north-south wing
- Tan/White 12" x 12" Vinyl Floor Tile with Black Mastic – Located in outpatient surgery recovery and the workroom in the north-south wing

Emergency, Radiology, & Physical Therapy (1987)

- Black Mastic under Non-ACM Tan 12" x 12" Vinyl Floor Tile – Located in the Emergency Room

Dialysis Center (1987)

- Blue 12" x 12" Vinyl Floor Tile with Black Mastic – Records Room
- Black/Brown Mastic under Non-ACM White/Blue 12" x 12" Vinyl Floor Tile – Located in the Bathroom and hallway

Various Locations

- Assumed ACM Fire Doors – Located at the entrance to all Mechanical Rooms and Stairwells
- Assumed ACM Metal-bestos Flue – The metal flue of the water heater within the 1961 Addition Boiler Room
- Assumed ACM Exhaust Stack – Off 1961 Addition Boiler Room
- ACM Tan Exterior Window Putty – Located on all exterior windows of the 1961 Addition

5.1.3 Regulated Asbestos Containing Materials

The following RACM were identified during the inspection process:

1961 Addition

- White/Brown Spray-Applied Ceiling Material Type I – Throughout the 1st and 2nd floor areas of the 1961 addition of the building, excluding the 1st floor kitchen
- Off White Spray-Applied Ceiling Material Type II – Located in the lobby area and exterior overhang of the 1961 addition
- White Vibration Joint Cloth – Mechanical Room #11
- White Boiler Breaching – Located on the boiler in the Old Boiler Room
- Gray/Brown Refractory Mud – Inside the boiler located in the Old Boiler Room

Main Boiler Room

- Gray/White Boiler Breeching – Located on the boilers in the Main Boiler Room
- Brown Boiler Gasket – Located on the boilers in the Main Boiler Room
- White/Off-White Condensate Tank Insulation – Located in the Main Boiler Room
- White High-Pressure Steam Pipe Insulation – Located in the Main Boiler Room
- White Hot Water Pipe Insulation – Located in the Main Boiler Room
- White Condensate Pipe Insulation – Located in the Main Boiler Room

5.2 Lead Based Paint

Lead-based paint was identified above the permissible level thresholds set by USEPA and the HUD of either 1.0 mg/cm^2 by XRF or 5,000 ppm in paint chip samples.

- There were 1681 XRF screenings conducted with 103 paint chip samples collected and analyzed. Of the 103 paint chip samples collected and submitted for analysis, nine (9) samples showed "Positive" readings. The interior LBP XRF survey identified ten (10) painted surfaces with lead concentrations greater than the Federal/State threshold of 1.0 mg/cm^2. The building contained five (5) areas (2 - CT scan rooms and 3 - X-Ray rooms)

with lead-lined sheetrock walls and doorways or lead-containing components. The XRF investigation of these five (5) areas revealed the presence of lead in twelve (12) surfaces. All twelve (12) samples were identified as containing lead in regulated concentrations.

5.3 Other Regulated Materials

- All ORMs identified during the Phase I ESA were still present in the building during the Phase II ESA.

5.4 Conclusions

The following conclusions are presented based upon the findings of the Phase II ESA:

- Category I non-friable ACM was not identified in the building during the inspection. Category I Non-friable materials that are not RACM may remain during demolition or renovation activities as long as there are no visible emissions and that they are not subjected to sanding, grinding, cutting, or drilling.
- Category II Non-Friable ACM was identified in the Floor Tile and Mastic, Covebase Mastic, Pipe Mastic, Vinyl Floor Tile, Black Tar Pipe Wrap, Exterior Soffit Panels, Exterior Window Putty, Fire Doors, Metal-bestos Flue, and Exhaust Stack. In most cases, the non-friable ACM can be managed in place with minimal regulatory requirements as long as the material is in a non-crumbling or dust producing state. Continued deterioration of the vinyl floor tiles may create a situation whereby the tiles could be reclassified as RACM.
- RACM was identified in the building in the Applied Ceiling Material (Type I and Type II), Vibration Joint Cloth, White Boiler Breaching, Gray/Brown Refractory Mud, Gray/White Boiler Breaching, Brown Boiler Gasket, White/Off White Condensate Tank Insulation, White High-Pressure Steam Pipe Insulation, White Hot Water Pipe Insulation, and White Condensate Pipe Insulation. The management of RACM is governed by OSHA and ADEQ regulations, as this material can become easily airborne. The removal, repair, or encapsulation of RACM requires that the employer follows the removal and training requirements of OSHA 29 CFR 1926.1101 for Class I work activities

and ADEQ asbestos rules. Specific management requirements for RACM are presented in the Results Section of this report.

- LBP was identified above the permissible level in the interior and exterior paint in several locations throughout the buildings. Additionally, the building contained five (5) areas (Two (2) - CT scan rooms and Three (3) - X-Ray rooms) with lead-lined sheetrock walls and doorways or lead-containing components. Management requirements for LBP are presented in the Results Section of this report.

- ORMs are present within the building. If properly removed and handled in accordance with the requirements stated in this report, the ORMs in the building present no restrictions to the reuse or demolition of the building. Management requirements for ORM are presented in the Results Section of this report.

The proper management of ACM, LBP, and ORM in accordance with the requirements stated in this report should enable the end user to safely demolish or reuse the building.

6. REFERENCES

The following references were utilized in the preparation of this Phase II ESA Report.

ALL Consulting (ALL). 2011. *Scope of Work, Phase I, II, and III Environmental Site Assessments at Multiple Arkansas Sites for the Targeted Brownfields Assessment for USEPA Region 6;* Contract No. W912BV-09-D-2026, T.O.0011: October 18, 2011.

ALL 2012a. *Phase I Environmental Site Assessment Report Former Howard County Hospital*; *Nashville, Arkansas*. January 26, 2012.

ALL 2012b. *Quality Assurance Project Plan (QAPP) for Targeted Brownfields Assessment (TBA) Phase II Environmental Site Assessment (ESA), Former Howard County Hospital*. January 2012.

ASTM E-1903-9. *Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process,* 2002.

EEG 2012a. Environmental Enterprise Group (EEG). 2012. *Asbestos Investigation Report for Former Howard County Hospital, Nashville, Arkansas*. February 2011.

EEG 2012b. Environmental Enterprise Group (EEG). 2012. *Lead Based Pint Inspection Report for Former Howard County Hospital, Nashville, Arkansas*. February 2011.

USACE 2011. *Revised Scope of Work for Phase I, II, Phase III Environmental Site Assessment (ESA) at Multiple Arkansas Sites for the Targeted Brownfields Assessment for USEPA Region 6*. USACE Contract No. W912BV-09-D-2026, Task Order 0011. October 18, 2011.

USEPA 1998. *Quality Assurance Guidance for Conducting Brownfields Site Assessments*; EPA 540-R-98-038: September 1998.

Appendix A

Asbestos Investigation Report

ASBESTOS INVESTIGATION REPORT

for

Former Howard County Hospital
800 Leslie Street
Nashville, Arkansas 71852

PROJECT # 11-0111-275

Prepared for:

Mr. Charles B. McComas
ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

February 29, 2012

Prepared for

Mr. Charles B. McComas
ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

The following pages of this Asbestos Investigation report have been prepared for the exclusive use of ALL Consulting at the request of Mr. Charles B. McComas. The property surveyed is described as the former Howard County Hospital located at 800 Leslie Street in Nashville, Arkansas.

Performed by:

2/29/12
Date

Mr. James Waldo
Environmental Professional
Environmental Enterprise Group, Inc. (EEG)

Senior Review:

2/29/12
Date

Mr. Bob E. Smith
Senior Project Manager
Environmental Enterprise Group, Inc. (EEG)

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1.0 EXECUTIVE SUMMARY

1.1 INTRODUCTION

ENVIRONMENTAL ENTERPRISE GROUP, INC. (EEG) (Arkansas Department of Environmental Quality (ADEQ) Asbestos Abatement Consultant Certification No. 000234) was retained by ALL Consulting to conduct an inspection for suspect asbestos-containing materials (ACM) at the above-referenced property located in Nashville, Arkansas. The inspection included the assessment of suspect friable and non-friable ACM.

The purpose of this survey was to locate, identify, sample and assess the condition of accessible materials found throughout the former Howard County Hospital located at 800 Leslie Street in Nashville, Arkansas, that were suspected of containing more than one percent (1%) asbestos. The investigation took place at the request of Mr. Charles B. McComas of ALL Consulting and was conducted by Mr. James Waldo (Certification No. 012679), Environmental Professional, on February 6, 2012.

In order to ensure a safe and healthy work environment, Federal, State and local regulations require that ACM be identified and controlled. This asbestos investigation report provides the basis for an Operations and Maintenance (O&M) Plan.

1.2 BUILDING DESCRIPTION

The former Howard County Hospital, built in 1949 with additions in 1961, 1972, and 1987, contains approximately 54,340 square feet and is constructed of a metal frame with brick exterior walls and a built-up tar roof. The interior walls are plaster, drywall, and block. The building sits on a concrete foundation. The building utilizes gas and electric HVAC systems.

1.3 FINDINGS

As suspect ACM was identified, they were classified as either friable or non-friable. Friable materials are more hazardous than non-friable materials because they are more likely to release fibers into the air. In assessing the fiber release potential, the current condition of all ACM was noted. Evidence of deterioration, physical or water damage and the potential for future disturbance were taken into consideration. The potential of erosion of the ACM due to air disturbance, high vibration or contact was also noted.

The following materials were found to be asbestos containing and were present at the facility in the listed quantities and locations:

1961 ADDITION

Sample Group	*HA	Material Description	Sample Location	Friable / Non-Friable	Quantity	Condition	Category
HCH-2A	2	ACM White/Brown Spray-Applied Ceiling Material – Type I	2nd Floor West Hallway	Friable	9,206 ft^2	Good	RACM
HCH -3A	3	ACM Tan 9" x 9" Floor Tile & Black Mastic	Lobby Area	Non-Friable	8,101 ft^2	Good	II
HCH -7A	7	ACM Off White Spray-Applied Ceiling Material – Type II	1st Floor Lobby Area	Friable	2,042 ft^2	Good	RACM
HCH -10A	10	ACM White Vibration Joint Cloth	Mech. Room #11	Friable	1 Unit	Good	RACM
HCH -12B	12	ACM White Pipe Mastic Associated with Non-ACM Brown Insulation	Old Boiler Room	Non-Friable	40 Units	Good	II
HCH -14A	14	ACM White Boiler Breeching	Old Boiler Room	Friable	150 ft^2	Good	RACM
HCH -15A	15	ACM Gray/Brown Refractory Mud	Inside Boiler - Old Boiler Room	Friable	3 ft^2	Good	RACM
HCH -16A	16	ACM Black Tar Pipe Wrap	Room 240 A/C Unit	Non-Friable	1 L.F.	Good	II
HCH -18B	18	ACM Brown Floor Tile & Black Mastic under Non-ACM White 12" x 12" Floor Tile & Yellow Mastic	Near Nurses' Station	Non-Friable	6,135 ft^2	Good	II
HCH -19A	19	ACM White Exterior Soffit Panels	Exterior Soffit	Non-Friable	2,111 ft^2	Good	II

**HA = Homogeneous Area*

ORIGINAL 1949 BUILDING

Sample Group	*HA	Material Description	Sample Location	Friable / Non-Friable	Quantity	Condition	Category
HCH -21C	21	ACM Brown Covebase Mastic	2nd Floor East Hallway	Non-Friable	1,000 L.F.	Good	II
HCH -26A	26	ACM Off White 12" x 12" Floor Tile & Black Mastic	1st Floor West Hallway	Non-Friable	13, 404 ft^2	Good	II
HCH – 26 D	26	ACM Off White 12" x 12" Floor Tile & Black Mastic	2nd Floor West Hallway	Non-Friable	Included in HCH-26A	Good	II
HCH -27A	27	ACM Off White Pipe Mastic	1st Floor Hallway above Drop Ceiling	Non-Friable	5 ft^2	Good	II

**HA = Homogeneous Area*

SURGERY & NORTH-SOUTH WING

Sample Group	*HA	Material Description	Sample Location	Friable / Non-Friable	Quantity	Condition	Category
HCH -31A	31	ACM Off White 12" x 12" Floor Tile & Black Mastic	Room 270	Non-Friable	7,258 ft^2	Good	II
HCH -39B	39	ACM Tan/White 12" x 12" Floor Tile & Black Mastic	Work Room	Non-Friable	486 ft^2	Good	II

EMERGENCY, RADIOLOGY, & PHYSICAL THERAPY (1987)

Sample Group	*HA	Material Description	Sample Location	Friable / Non-Friable	Quantity	Condition	Category
HCH-46A	46	ACM Black Mastic under Non-ACM Tan 12" x 12" Floor Tile	Emergency Room	Non-Friable	150 ft^2	Good	II

DIALYSIS CENTER (1987)

Sample Group	*HA	Material Description	Sample Location	Friable / Non-Friable	Quantity	Condition	Category
HCH-51A	51	ACM Black Mastic under ACM Blue 12" x 12" Floor Tile	Records Room	Non-Friable	1,500 ft^2	Good	II
HCH-52A	52	ACM Black/Brown Mastic under Non-ACM White/Blue 12" x 12" Floor Tile	Bathroom	Non-Friable	50 ft^2	Good	II

MAIN BOILER ROOM

Sample Group	*HA	Material Description	Sample Location	Friable / Non-Friable	Quantity	Condition	Category
HCH -58A	58	ACM Gray/White Boiler Breeching	Main Boiler Room	Friable	150 ft^2	Good	RACM
HCH -59A	59	ACM Brown Boiler Gasket	Main Boiler Room	Friable	60 L.F.	Good	RACM
HCH -60B	60	ACM White/Off White Condensate Tank Insulation	Main Boiler Room	Friable	150 L.F.	Good	RACM
HCH -61A	61	ACM White High Pressure Steam Pipe Insulation	Main Boiler Room	Friable	130 L.F.	Good	RACM
HCH-62A	62	ACM White Hot Water Pipe Insulation	Main Boiler Room	Friable	150 L.F.	Good	RACM
HCH-63A	63	ACM White Condensate Pipe Insulation	Main Boiler Room	Friable	130 L.F.	Good	RACM

VARIOUS LOCATIONS

Sample Group	*HA	Material Description	Sample Location	Friable / Non-Friable	Quantity	Condition	Category
HCH-65	65	Assumed ACM Fire Doors	Mechanical Rooms & Stairwells	Non-Friable	Throughout	Good	II
HCH-66	66	Assumed ACM Metal-bestos Flue	1961 Addition Boiler Room	Non-Friable	30 L.F.	Good	II
HCH-67	67	Assumed ACM Exhaust Stack	Off 1961 Addition Boiler Room	Non-Friable	2,000 ft^2	Good	II
HCH-68A	68	ACM Tan Exterior Window Putty	Exterior Windows - 1961 Building	Non-Friable	36 Units	Good	II

EEG recommends that the ACM identified in this survey be abated prior to scheduled demolition activities. Asbestos abatement work shall be performed in accordance with local, state and federal regulations.

It is important to note that non-friable materials may become friable when being removed or demolished. The condition of these materials must be monitored when they are being disturbed. In the event that non-friable asbestos containing materials become friable during removal or demolition, there may be regulatory issues that must be addressed.

According to the Arkansas Pollution Control and Ecology Commission Regulation 21 – Arkansas Abatement Regulation, effective July 15, 1997, all demolitions and renovations of regulated asbestos containing materials (RACM) must provide a written notice of intent (NOI) to the Arkansas Department of Environmental Quality (ADEQ). The NOI provides detailed information concerning renovations of RACM and all demolitions. A copy of the ADEQ NOI form is included in the appendices.

2.0 MATERIAL ASSESSMENT & RECOMMENDATIONS

2.1 ASBESTOS CONTAINING MATERIALS

As a result of the inspection conducted by EEG, the following materials were classified as asbestos-containing. EEG has made recommendations regarding each positive material in accordance with the AHERA guidelines (see Section 4.3).

HA: 2A **Material Description:** ACM White/Brown Spray-Applied Ceiling Material – Type I

Material is located throughout the 1st and 2nd floor areas of the 1961 addition of the building, excluding the 1st floor kitchen.

The material is a friable, surfacing material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 3A **Material Description:** ACM Tan 9" x 9" Floor Tile & Black Mastic

Material is located throughout the 1st and 2nd floor areas of the 1961 addition of the building, excluding the 1st floor kitchen.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 7A **Material Description:** ACM Off White Spray-Applied Ceiling Material – Type II

Material is located in the lobby area and exterior overhang of the 1961 addition.

The material is a friable, surfacing material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 10A **Material Description:** ACM White Vibration Joint Cloth

Material is located in mech. room #11 of the 1961 addition.

The material is a friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 12B **Material Description:** ACM White Pipe Mastic Associated with Non-ACM Brown Insulation

Material is located in the old boiler room and on all piping above the ceilings of the 1961 addition.

The material is a non-friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 14A **Material Description:** ACM White Boiler Breeching

Material is located on the boiler in the old boiler room of the 1961 addition.

The material is a friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 15A **Material Description:** ACM Gray/Brown Refractory Mud

Material is located inside the boiler in the old boiler room of the 1961 addition.

The material is a friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 16A **Material Description:** ACM Black Tar Pipe Wrap

Material exists in all Uni-Vent HVAC wall units throughout the buildings.

The material is a non-friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 18A **Material Description:** ACM Brown Floor Tile & Black Mastic under Non-ACM White 12" x 12" Floor Tile & Yellow Mastic

Material is located near the nurse's station and in the 2nd floor hallway and Room 259.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 19A **Material Description:** ACM White Exterior Soffit Panels

Material is located on the exterior Soffit of the original 1949 building and the 1961 addition.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 21C **Material Description:** ACM Brown Covebase Mastic

Material is located in the 2nd floor hallway of the original 1949 building.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 26A, D **Material Description:** ACM Off White 12" x 12" Floor Tile & Black Mastic

Material is located throughout the 1st and 2nd floors of the original 1949 building.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 27A **Material Description:** ACM Off White Pipe Mastic

Material is located above the drop ceilings throughout the original 1949 building.

The material is a non-friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 31A **Material Description:** ACM Off White 12" x 12" Floor Tile & Black Mastic

Material is located throughout the north-south wing and the surgery hallway in the north-south wing.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 39B **Material Description:** ACM Tan/White 12" x 12" Floor Tile & Black Mastic

Material is located in outpatient surgery recovery and the workroom in the north-south wing.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 46A **Material Description:** ACM Black Mastic under Non-ACM Tan/White 12" x 12" Floor Tile

Material is located in the emergency room.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 51A **Material Description:** ACM Black Mastic under Non-ACM Tan 12" x 12" Floor Tile

Material is located in the records room of the dialysis center.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 52A **Material Description:** ACM Black/Brown Mastic under Non-ACM White/Blue 12" x 12" Floor Tile

Material is located in the bathroom and hallway of the dialysis center.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 58A **Material Description:** ACM Gray/White Boiler Breeching

Material is located on the boilers in the main boiler room.

The material is a friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 59A **Material Description:** ACM Brown Boiler Gasket

Material is located on the boilers in the main boiler room.

The material is a friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 60B **Material Description:** ACM White/Off White Condensate Tank Insulation

Material is located in the main boiler room.

The material is a friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 61A **Material Description:** ACM White High Pressure Steam Pipe Insulation

Material is located in the main boiler room.

The material is a friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 62A **Material Description:** ACM White Hot Water Pipe Insulation

Material is located in the main boiler room.

The material is a friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 63A **Material Description:** ACM White Condensate Pipe Insulation

Material is located in the main boiler room.

The material is a friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 65 **Material Description:** Assumed ACM Fire Doors

Material is located at the entrances of all mechanical rooms and stairwells.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 66 **Material Description:** Assumed ACM Metal-bestos Flue

Material is the metal flue of the water heater of the 1961 boiler room.

The material is a friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 67 **Material Description:** Assumed ACM Exhaust Stack

Material is located off the 1961 boiler room.

The material is of non-friable, TSI material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

HA: 68A **Material Description:** ACM Tan Exterior Window Putty

Material is located on all exterior windows of the 1961 building.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM be removed in accordance with local, state and federal regulations prior to demolition activities.

In certain instances, the Arkansas Department of Environmental Quality (ADEQ) allows buildings to be demolished with some types of non-friable ACM left in place. Contact EEG prior to demolition to determine if this option may be exercised.

3.0 ESTIMATED COST FOR REMOVAL

Sample Group	*HA	Material	Location	Quantity	Estimated Removal Cost
HCH-2A	2	ACM White/Brown Spray-Applied Ceiling Material – Type I	1961 Addition - Throughout the 1st and 2nd Floor Areas Excluding the 1st Floor Kitchen	9,206 ft^2	$55,236.00
HCH -3A	3	ACM Tan 9" x 9" Floor Tile & Black Mastic	1961 Addition - Throughout the 1st and 2nd Floor Areas Excluding the 1st Floor Kitchen	8,101 ft^2	$16,202.00
HCH -7A	7	ACM Off White Spray-Applied Ceiling Material – Type II	1961 Addition - Lobby Area and Exterior Overhang	2,042 ft^2	$12,252.00
HCH -10A	10	White Vibration Joint Cloth	1961 Addition - Mech. Room #11	1 Unit	$250.00
HCH -12B	12	ACM White Pipe Mastic Associated with Non-ACM Brown Insulation	1961 Addition - Old Boiler Room	40 Units	$2,500.00
HCH -14A	14	ACM White Boiler Breeching	1961 Addition - Old Boiler Room	150 ft^2	$5,000.00
HCH -15A	15	ACM Gray/Brown Refractory Mud	1961 Addition - Inside Boiler - Old Boiler Room	3 ft^2	$500.00
HCH -16A	16	ACM Black Tar Pipe Wrap	Uni-Vent HVAC Wall Units Throughout the Buildings	1 L.F.	$250.00
HCH -18B	18	ACM Brown Floor Tile & Black Mastic under Non-ACM White 12" x 12" Floor Tile & Yellow Mastic	1961 Addition - Near Nurses' Station, 2nd Floor Hallway, Room 259	6,135 ft^2	$15,338.00
HCH -19A	19	ACM White Exterior Soffit Panels	Exterior Soffits of Original 1949 Building & 1961 Addition	2,111 ft^2	$15,555.00
HCH -21C	21	ACM Brown Covebase Mastic	Original 1949 Building - 1st Floor NW Office & West Hallway/2nd Floor East Hallway	1,000 L.F.	$2,000.00
HCH -26A, D	26	ACM Off White 12" x 12" Floor Tile & Black Mastic	Original 1949 Building - 1st Floor West Hallway, Central Office, East Room/2nd Floor - West Hallway, Near Elevator, SE Room	13, 404 ft^2	$26,808.00
HCH -27A	27	ACM Off White Pipe Mastic	Original 1949 Building - 1st Floor Hallway above Drop Ceiling	5 ft^2	$250.00
HCH -31A	31	ACM Off White 12" x 12" Floor Tile & Black Mastic	Surgery & North-South Wing - Room 270 & Throughout the North-South Hallway	7,258 ft^2	$14,516.00
HCH -39B	39	ACM Tan/White 12" x 12" Floor Tile & Black Mastic	Surgery & North-South Wing - Outpatient Surgery Recovery, Work Room	486 ft^2	$2,430.00
HCH-46A	46	ACM Black Mastic under Non-ACM Tan 12" x 12" Floor Tile	Emergency Room	150 ft^2	$2,500.00
HCH-51A	51	ACM Black Mastic under ACM Blue 12" x 12" Floor Tile	Dialysis Center - Records Room	1,500 ft^2	$3,000.00

Sample Group	*HA	Material	Location	Quantity	Estimated Removal Cost
HCH-52A	52	ACM Black/Brown Mastic under Non-ACM White/Blue 12" x 12" Floor Tile	Dialysis Center - Bathroom, Hallway	50 ft^2	$2,500.00
HCH -58A	58	ACM Gray/White Boiler Breeching	Main Boiler Room	150 ft^2	$5,000.00
HCH -59A	59	ACM Brown Boiler Gasket	Main Boiler Room	60 L.F.	$1,800.00
HCH -60B	60	ACM White/Off White Condensate Tank Insulation	Main Boiler Room	150 L.F.	$2,500.00
HCH -61A	61	ACM White High Pressure Steam Pipe Insulation	Main Boiler Room	130 L.F.	$3,000.00
HCH-62A	62	ACM White Hot Water Pipe Insulation	Main Boiler Room	150 L.F.	$3,000.00
HCH-63A	63	ACM White Condensate Pipe Insulation	Main Boiler Room	130 L.F.	$3,000.00
HCH-65	65	Assumed ACM Fire Doors	Mechanical Rooms & Stairwells	Throughout	$5,000.00
HCH-66	66	Assumed ACM Metal-bestos Flue	1961 Addition Boiler Room	30 L.F.	$1,500.00
HCH-67	67	Assumed ACM Exhaust Stack	Off 1961 Addition Boiler Room	2,000 ft^2	$25,000.00
HCH-68A	68	ACM Tan Exterior Window Putty	Exterior Windows - 1961 Building	36 Units	$5,000.00
				**Estimated Removal Cost	$221,887.00

**HA = Homogeneous Area*

*** Total Estimated Removal Cost is based on all asbestos-containing materials being removed at the same time. Total Removal Cost does not include project management and air monitoring consultant fees.*

It is important to note that non-friable materials may become friable when being removed or demolished. The condition of these materials must be monitored when they are being disturbed. In the event that non-friable asbestos containing materials become friable during removal or demolition, there may be regulatory issues that must be addressed.

3.1 ASSUMED ASBESTOS CONTAINING MATERIALS

EEG was unable to access areas above hard ceilings throughout the original 1949 building and the 1961 addition where they exist. Asbestos containing mechanical system insulation is assumed to exist in these areas. Additionally, fire doors at the entrances to all of the existing mechanical spaces, and a metal-bestos flue in the old boiler room of the 1961 addition are assumed to be asbestos containing until laboratory analysis proves otherwise. All other suspect materials identified were sampled. No other building materials were assumed to be asbestos containing.

3.2 MATERIALS SAMPLED, ANALYZED AND FOUND TO BE NON-ASBESTOS CONTAINING MATERIALS

The following materials, found in the former Howard County Hospital, were suspected of being asbestos-containing, but sampling and analytical testing showed asbestos concentrations of less than or equal to one percent (1%). These materials are:

MATERIAL	MATERIAL LOCATION
Covebase Mastic	1961 Addition - Lobby & Kitchen Areas, 2nd Floor West Hallway
Drywall	1961 Addition - Old Boiler Room, Room 261, 2nd Floor Work Station
White 2' x 2' Ceiling Tile	1961 Addition - 1st Floor SW Office
White 2' x 4' Ceiling Tile	1961 Addition - 1st Floor Admin. Hallway & Cafeteria, 2nd Floor West Hallway, Nurses' Station & East Hallway
Brown 12" x 12" Floor Tile & Mastic	1961 Addition - Kitchen
Pebble-Patterned Resilient Flooring	1961 Addition - Kitchen Wash Room
Wall Coating	1961 Addition - Kitchen
Pipe Fittings	1961 Addition - Old Boiler Room
Tar Paper Interior Duct Insulation	1961 Addition - Mech. Room #7
12" x 12" Floor Tile & Yellow Mastic with ACM Brown Floor Tile & Black Mastic	1961 Addition - Near Nurses' Station, 2nd Floor East Hallway, Room 259
Exterior Soffit	1961 Addition - South Side; Ground Floor
Drywall	1949 Building - Mech. Room #5, 1st Floor East Room, 2nd Floor Utility Room
Spray-Applied Ceiling Material Type III	1949 Building - 1st Floor Records Rom
White 2' x 4' Ceiling Tile	1949 Building - 1st Floor NW Room, Records Room, East Hallway/2nd Floor East & West Hallways
White 1' x 1' Ceiling Tile	1949 Building - 2nd Floor Maintenance Office, SE Office, Former Pharmacy
Fire Stop	1949 Building - Mech. Room #5 Wall
Duct Insulation	1949 Building - Mech. Room #5
Pipe Fittings	1949 Building - Mech. Room #5
White 2' x 4' Ceiling Tile	Surgery & North-South Wing - Hallway South End, Recovery Room, Surgery Hallway
White 1' x 1' Ceiling Tile	Surgery & North-South Wing - Rooms 271, 276, 278
Drywall	Surgery & North-South Wing - Mech. Room #2, North-South Hallway, Surgery Storage Room
Covebase Mastic	Surgery & North-South Wing - Surgery Hallway
Blue Resilient Flooring	Surgery & North-South Wing - Surgery Area

MATERIAL	MATERIAL LOCATION
Gray Resilient Flooring	Surgery & North-South Wing - Surgery Area
White/Gray Resilient Flooring	Surgery & North-South Wing - Pre-Op Area
Pipe Mastic	Surgery & North-South Wing - Main Boiler Room
Pipe Fittings	Surgery & North-South Wing - Main Boiler Room
Tan 12" x 12" Floor Tile & Mastic	Emergency, Radiology & Physical Therapy - Waiting Area, Hallway, SW Closet
White 2' x 4' Ceiling Tile	Emergency, Radiology & Physical Therapy - ICU Area Hallway, Emergency Hallway
Covebase Mastic	Emergency, Radiology & Physical Therapy - Emergency Hallway
Drywall	Emergency, Radiology & Physical Therapy - Mech. Room #10, Emergency Area, ICU Area
Tan 12" x 12" Floor Tile with ACM Black Mastic	Emergency, Radiology & Physical Therapy - Emergency Room
Tar Paper Interior Duct Insulation	Emergency, Radiology & Physical Therapy - Mech. Room #10
White 2' x 2' Ceiling Tile	Emergency, Radiology & Physical Therapy - Emergency Room
Black Lab Table Top	Emergency, Radiology & Physical Therapy - Lab Area
Fireproofing	Emergency, Radiology & Physical Therapy - above Drop Ceiling
Blue 12" x 12" Floor Tile with ACM Black Mastic	Dialysis Center - Records Room
White/Blue 12" x 12" Floor Tile with ACM Black/Brown Mastic	Dialysis Center - Bathroom, Hallway
White 2' x 2' Ceiling Tile	Dialysis Center - Records Room
Pipe Mastic	Dialysis Center - Mech. Room
White 2' x 4' Ceiling Tile	Dialysis Center - Storage Closet
Duct Insulation	Main Boiler Room
White 2' x 4' Ceiling Tile	Main Boiler Room
Exterior Window Glaze	1949 Building Exterior Windows
Wall Plaster	1949 Building - Telephone Booth
Duct Tape	Mech. Room #10 - Radiology Area
Built-Up Roofing	1949 Building, 1949-1961 Connector, 1961 Building, South Half of North-South Wing, North Half of North-South Wing, Connector between Recovery & Surgery, Surgery, Emergency
Built-Up Roofing Edge	Surgery, Emergency
Asphalt Shingle	Emergency Entrance Canopy

MATERIAL	MATERIAL LOCATION
Dust on Floor	East Room 1st Floor of 1949 Building, West Hall 2nd Floor of 1949 Building, Lobby of 1961 Building, 2nd Floor Nurses' Station of 1961 Building, North-South Wing Room 271, Surgical Hallway, Main Boiler Room, Emergency Room Hallway

3.3 BUILDINGS/AREAS ASSESSED BUT WITH NO SUSPECT MATERIALS

The crawlspace under the north half of the building was inspected for suspect asbestos containing material. The crawlspace was found to have a significant amount of piping that is part of the mechanical system of the building; however, the piping was found to be insulated with fiberglass insulation. No materials suspected of containing asbestos were observed in connection with the piping or in the crawlspace itself.

3.4 MATERIALS CONSIDERED TO BE NON-SUSPECT BY USEPA

- Concrete Slab Walls and Concrete Roofing
- Wood Structures and Beams
- Fiberglass Bat Insulation Panels
- Fiberglass Pipe Insulation
- Fiberglass Tank Insulation
- Fiberglass Wall Insulation
- Cinder Block Walls
- Non-Insulated Piping
- Sheet Metal Ceilings and Walls
- Brick on Walls and Floors
- Ceramic Tiles on Floors and Walls
- Carpet
- Wood Paneling
- Epoxy Flooring Material
- Synthetic Glass Block Pipe Insulation
- Fiberglass and Metal HVAC Ductwork
- Steel and Sheet Metal Storage Buildings
- Steel and Sheet Metal Storage Tanks

4.0 METHODOLOGY

Asbestos is a naturally occurring fibrous mineral that has many beneficial properties. It is resistant to acids and heat and does not conduct electricity or heat well. It is because of these features that it was widely used in buildings constructed prior to 1975. Asbestos was used in over 3,000 types of construction materials.

The Asbestos Hazard and Emergency Response Act (AHERA) is a Federal law that describes standard methods for asbestos inspections. The AHERA addresses the hazard of asbestos in schools, and grants no jurisdictional powers to any branch of government for the regulation of asbestos in any facility other than a school. This asbestos investigation satisfies the inspection requirements outlined in the Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1001 and 1926.1101. An Operations and Maintenance (O&M) Plan will be implemented from this asbestos investigation. This asbestos investigation also satisfies requirements specified under the Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAPS) 40 CFR Part 61 that states a survey must be performed identifying friable and non-friable ACM in a building prior to renovation or demolition. However, you may elect to collect and analyze additional samples of affected materials at the time of renovation or demolition.

4.1 HOMOGENEOUS AREAS

The site was inspected for the presence of materials that may contain asbestos. These materials were then described and categorized by homogeneous area (HA). The AHERA defines "homogeneous area" as an area of surfacing material, thermal system insulation material or miscellaneous material that is uniform in color, texture and date of material application. During the building inspection, the inspector classifies all materials by "homogeneous area." Homogeneous area might be better understood as a homogeneous material, since there is no requirement that a homogeneous area be contiguous or continuous. An example of this might be a building that has a single type of floor tile. All floor tile in the building would be considered a single "homogeneous area" regardless of where it is located because it is uniform in color, texture and date of material application.

4.2 INSPECTION AND SAMPLING

4.2.1 Inspection Methods

The building inspection was performed as follows:

1. A visual determination of the quantity and condition of suspect materials in the facility.
2. A physical "hand pressure" test for determining the condition of suspect materials.
3. Sampling and documentation of observable suspect materials according to EPA guidelines.
4. Measurement of all observable material sampled to determine the quantity existing within the facility. The quantity is determined by a visual inspection and/or by blueprint examination.

4.2.2 Sampling Strategies

1. As much as possible, sampling was conducted in unoccupied areas such as mechanical rooms, pipe chases and closets.
2. Samples of each material were collected according to material type, color and texture. If a suspect material such as corrugated pipe covering was found in an unoccupied area on a floor, those samples were used to represent the material throughout the building as long as the appearance did not change.
3. In a general assessment, pipe covering and mudded joint packings are sampled and measured as homogeneous material unless otherwise noted. Each homogeneous material was randomly sampled three times. When different suspect asbestos-containing thermal insulation was identified, three additional random samples of the homogeneous material were collected.
4. In this assessment, three composite samples were collected of all non-homogeneous materials or materials where asbestos was not easily identifiable such as:

    - mudded joint fittings, especially those on fiberglass-insulated lines
    - mudded packings on boilers, tanks, breechings, or ducts

5. Sampling was generally the last thing performed in each area after pressure testing, measuring, assigning sample numbers and evaluating the priority level.
6. All cementitious and miscellaneous suspect materials were sampled and noted as to location and quantity.

4.2.3 Sampling Procedures

The bulk samples were obtained with a stainless steel coring tool or knife designed to make clean cores of friable material to avoid creating excessive dust. The area was pre-wetted to reduce fiber generation during the sampling process. The coring tool or knife was used rather than scratching a sample from the surface of the suspect material in an effort to obtain a sample that was representative of all layers of the material.

Samples of materials such as ceiling tile, wallboard, floor tile, etc., are generally obtained with a utility knife. Frequently, a small, broken piece of these materials can be found and used as a sample.

4.2.4 Chain of Custody Procedures

A copy of the chain of custody that accompanied the samples is supplied in the Analytical Results Appendix. The inspector filled out the chain of custody form after all samples were collected and before the samples were shipped to the laboratory. When the laboratory received the samples, the chain of custody was transferred to the laboratory.

4.3 ASSESSMENT LOGIC

4.3.1 Priority Level Determination

As a result of the inspection and laboratory analysis of the bulk samples collected, EEG has generated a priority level for ACM that follows AHERA guidelines. The AHERA guidelines recognize seven levels of hazard associated with asbestos based on six primary variables: material condition; water damage; exposed surface area; accessibility; activity/movement; and air plenum/direct air stream.

Material condition refers to the condition of the material at the time of the inspection. Factors included are the quality of installation, adhesion of the material to the underlying substrate, deterioration of the outer covering, de-lamination, contact damage and material disintegration.

Water damage relates to the potential for water to dislodge, delaminate and disturb materials. Water damage weakens the binding matrix of the material and can carry fibers in a slurry to other areas of the building where they can become airborne.

The exposed surface area of friable material has an effect on potential fiber fallout levels and the possibility for contact and damage. A useful criterion in determining exposed surface areas is visibility of the friable asbestos material. Materials usually fall into one of the following categories: out in the open (fully exposed); above or behind a semi-permanent enclosure such as a wall, ceiling, or floor; and above or behind a permanent enclosure. Areas with louvers, grids or other open ceiling systems are considered exposed.

Accessibility of the material is a function of proximity. If the material can be reached, it is accessible and subject to accidental or intentional contact damage.

In the variable of activity and movement, occupancy and mechanical vibrations are two important factors to consider. High-occupancy areas are subject to more vibration from noise and physical movement; therefore, a greater ambient fiber release can be expected. This variable also plays an important role in determining abatement priority. Mechanical vibrations, especially in boiler mechanical rooms, not only create ongoing ambient fiber release, but when the system is turned on or off there is a sudden burst of mechanical and air movement that creates a brief peak exposure.

The category of air plenum/direct air stream refers to potential or existing air movement. A direct air stream moving across the material erodes the material, thereby releasing fibers into the air. If the area in question forms a supply air plenum, there is usually increased exposure to building occupants since the contaminated air is blown directly into rooms of the building. Return air plenums do not create quite as high an exposure potential as supply air plenums, but do contribute to the exposure of maintenance and mechanical workers accessing these areas. A value is given to this variable if there is a real or potential air stream at the time of the inspection. A fan, present but not in use at the time of the survey, is an example of a potential air stream.

Two sub-variables are asbestos content and friability. Friability is the ease with which material can be crumbled, pulverized or reduced to powder when dry, by hand pressure. The more friable the material, the greater the potential is for fiber release and contamination. The asbestos content is factored based on the analytical results of samples from a homogeneous sampling area. Materials with a high percentage of asbestos contain more fibers for potential release and contamination of the building.

The ***Decision Logic Flow Chart for Hazard Assessments***, located in the appendix section of this report, shows the decision logic used to classify ACM by AHERA guidelines.

4.3.2 Priority Level Interpretation

High Priority materials are generally those that have been significantly damaged. Removal is the corrective action suggested for most High Priority materials. Removal is the only permanent solution to asbestos-related problems.

Moderate Priority materials have a lower exposure potential than High Priority materials. However, they still represent a significant exposure potential. EEG recommends implementing a corrective action plan to reduce the high exposure potentials that exist in these areas. Depending on the funds available, the corrective action plan may involve complete removal, or selective removal in conjunction with the cleaning up of debris that may exist and the repair of any damaged areas. Removal also eliminates future exposure incidents that may cause the building owners to incur additional liability. Any past liability the building owner has incurred as a result of an occupant's exposure to ACM will not be altered.

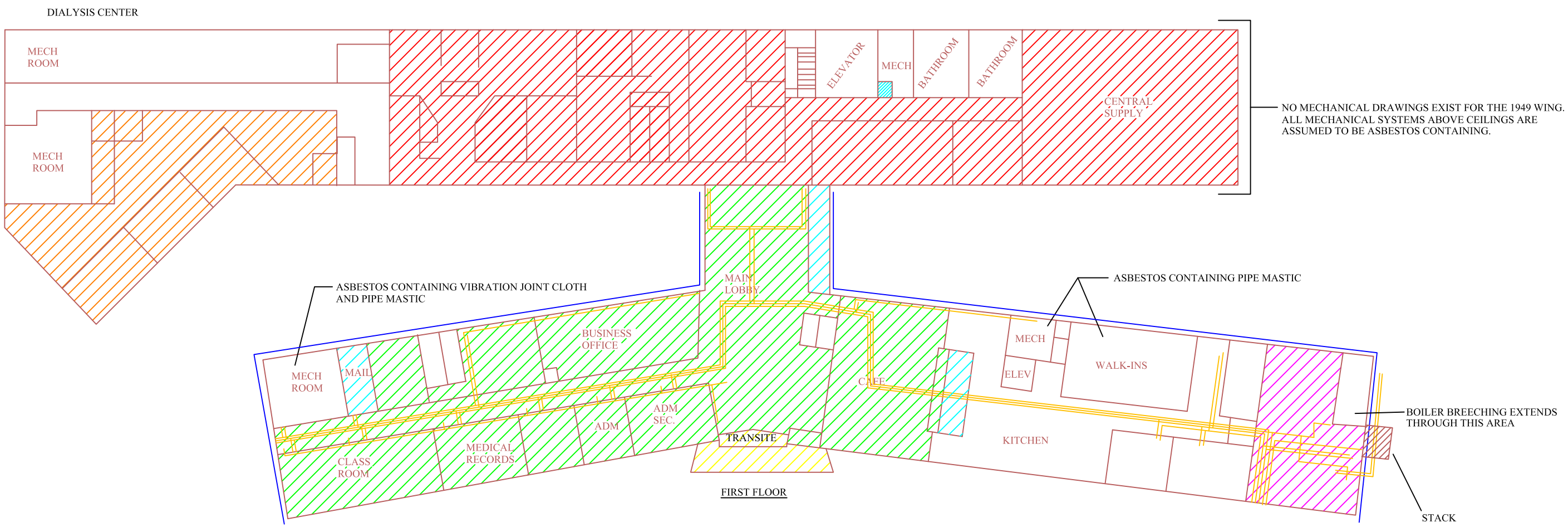
Low Priority materials either have a low friability or are located in inaccessible areas and are not expected to create a serious or immediate exposure potential. However, as materials deteriorate with time, a corrective action plan should be devised to minimize future asbestos exposure potential. The most effective means of reducing deterioration and accidental disturbance of ACM is the development of an Operations and Maintenance (O&M) Program. This is an interim control measure designed to train custodial and maintenance personnel, establish emergency abatement and control procedures, develop a periodic program to re-inspect the materials, and to provide the necessary supplies and equipment to perform these tasks.

Non-friable building materials do not create the potential for asbestos exposure unless they are sawed, broken, ripped or pulverized. However, even materials that are well wrapped and technically non-friable at the time of inspection have the potential to become friable very readily by accidental tearing or other disturbance (e.g., water damage, grinding, drilling, sawing, etc.). This report addresses friable and potentially friable materials.

The ***Decision Logic Flow Chart for Hazard Assessments***, located in the appendix section of this report, shows the priority level associated with each hazard level using AHERA guidelines. The chart also shows the action recommended for each hazard level.

APPENDICES

Drawings



FIRST FLOOR

ASBESTOS CONTAINING BLACK MASTIC UNDER NON-ACM BLUE & BROWN 12X12 FLOOR TILE

ASBESTOS CONTAINING BLACK MASTIC UNDER NON-ACM WHITE 12x12 FLOOR TILE

ASBESTOS CONTAINING SPRAY APPLIED MATERIAL

ASBESTOS CONTAINING SPRAY APPLIED CEILING MATERIAL, 9x9 FLOOR TILE, & MASTIC

ASBESTOS CONTAINING 9x9 FLOOR TILE & MASTIC

ASBESTOS CONTAINING PIPE MASTIC, BOILER REFRACTORY MUD, BOILER BREECHING, MUDDED PIPE FITTINGS, METAL PIPE FLUE (ASSUMED), & EXHAUST STACK INSULATION (ASSUMED)

ASBESTOS CONTAINING SOFFIT PANELS

THE 1961 MECHANICAL DRAWINGS INDICATE ASBESTOS CONTAINING PIPING EXISTING IN THIS CONFIGURATION

NOTES:

1. ASBESTOS CONTAINING TAR WRAP EXISTS ON MOST UNIVENT HVAC WALL SYSTEMS & ASBESTOS CONTAINING FIRE DOORS EXIST IN ALL MECHANICAL ROOMS
2. ASBESTOS CONTAINING PIPE, MASTIC, & INSULATION EXIST ABOVE ALL HARD CEILINGS
3. ASBESTOS CONTAINING WINDOW PUTTY EXISTS ON ALL EXTERIOR WINDOWS OF THE 1961 ADDITION
4. MECHANICAL SYSTEMS EXIST ABOVE THE TRANSITE SOFFITS

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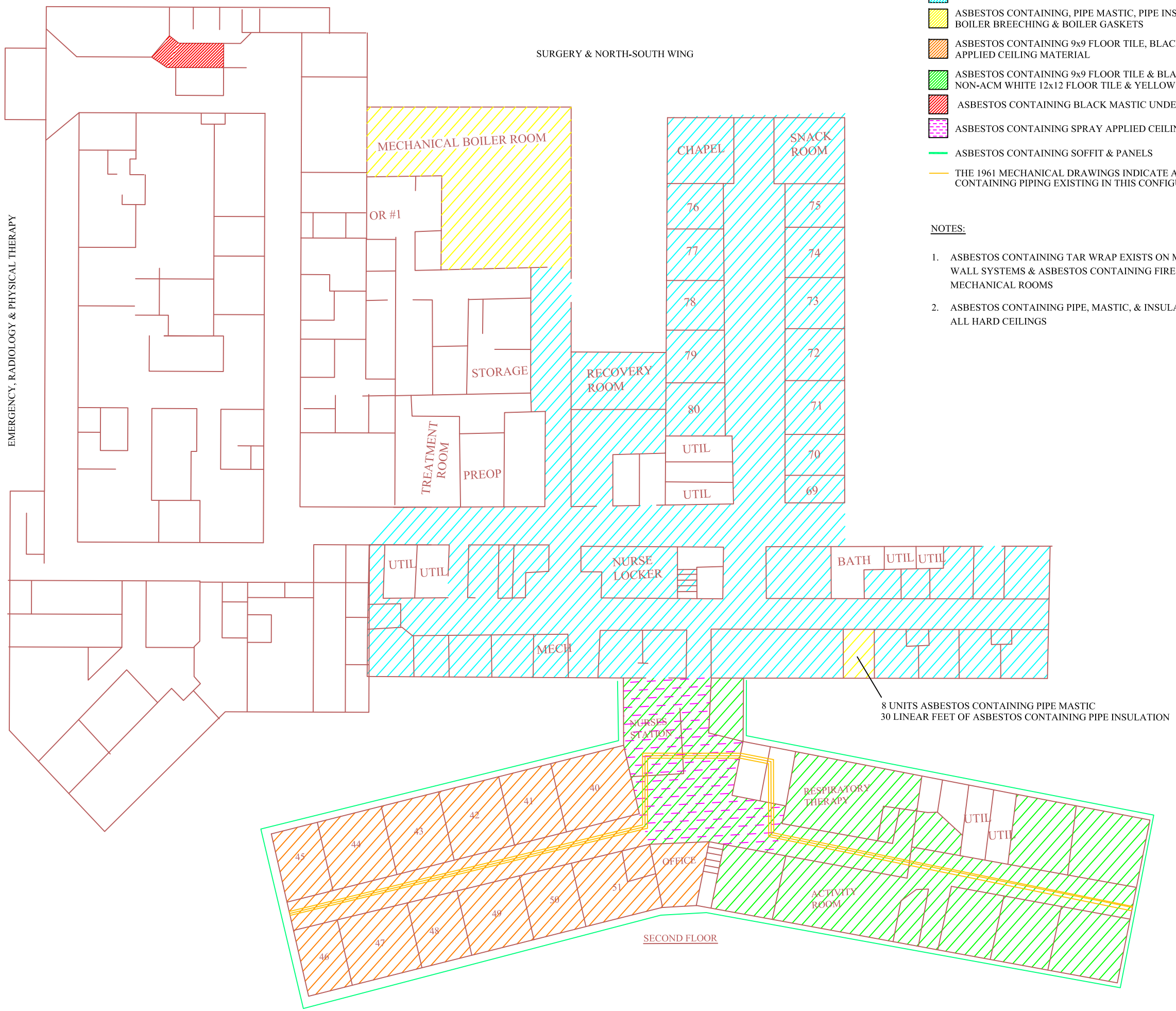

ASBESTOS CONTAINING OFF-WHITE 12x12 FLOOR TILE

ASBESTOS CONTAINING, PIPE MASTIC, PIPE INSULATION, TANK INSULATION BOILER BREECHING & BOILER GASKETS

ASBESTOS CONTAINING 9x9 FLOOR TILE, BLACK MASTIC, & SPRAY APPLIED CEILING MATERIAL

ASBESTOS CONTAINING 9x9 FLOOR TILE & BLACK MASTIC UNDER NON-ACM WHITE 12x12 FLOOR TILE & YELLOW MASTIC

ASBESTOS CONTAINING BLACK MASTIC UNDER NON-ACM 12X12 FLOOR TILE

ASBESTOS CONTAINING SPRAY APPLIED CEILING MATERIAL

ASBESTOS CONTAINING SOFFIT & PANELS

THE 1961 MECHANICAL DRAWINGS INDICATE ASBESTOS CONTAINING PIPING EXISTING IN THIS CONFIGURATION

NOTES:

1. ASBESTOS CONTAINING TAR WRAP EXISTS ON MOST UNIVENT HVAC WALL SYSTEMS & ASBESTOS CONTAINING FIRE DOORS EXIST IN ALL MECHANICAL ROOMS
2. ASBESTOS CONTAINING PIPE, MASTIC, & INSULATION EXIST ABOVE ALL HARD CEILINGS

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Photographs

Covebase Mastic

Drywall

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Black Tar Pipe Wrap

2' x 4' Ceiling Tile

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Blue 12" x 12" Floor Tile

White/Blue 12" x 12" Floor Tile

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2' x 2' Ceiling Tile

2' x 4' Ceiling Tile

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Boiler Breeching

Boiler Gasket

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High Pressure Steam Pipe

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Analytical Results

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Asbestos Sampling Chain of Custody/ Field Data Sheet

11-0111-275

CLIENT
ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: J. Waldo
Date: 2/6/12
Building ID: 1961 Addition
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-1A	1	Cordbase + Mastic	Lobby Area	✓			M	NF	G		L		
B	↓	↓	Kitchen Area			✓	↓	↓	↓		↓		
C	↓	↓	2nd floor Hallway West			✓	↓	↓	↓		↓		
2A	2	SACM - Type I	2nd Floor Hallway West	✓			S	F	G		L	9,206⌀	
B	↓	↓	2nd floor Nurses station			✓	↓	↓	↓		↓		
C	↓	↓	2nd Floor Utility Room			✓	↓	↓	↓		↓		
D	↓	↓	2nd Floor office			✓	↓	↓	↓		↓		
E	↓	↓	2nd Floor patient Room #213			✓	↓	↓	↓		↓		
3A	3	FT1- 9x9 Floor Tile	Lobby Area	✓			M	NF	G		L	8,101⌀	
B	↓	↓	Mail Room			✓	↓	↓	↓		↓		
C	↓	↓	Business office			✓	↓	↓	↓		↓		
4A	4	Drywall	old Boiler Room	✓			M	NF	G		L		
B	↓	↓	Room 261			✓	↓	↓	↓		↓		
C	↓	↓	2nd floor Workstation			✓	↓	↓	↓		↓		
5A	5	CT1- 2'x2' white Ceiling Tile	1st Floor S.W. office	✓			M	F	G		L	416⌀	
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		

A - Analyze *C - Catalogue* ◆ *- Analyze only if the previous sample was found to be negative*

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Inspector: J. Waldo
Date: 2/6/12
Building ID: 1961 Addition
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-6A	6	CT2 - WHT 2x4 Ceiling Tile	1st Floor Admin Hallway	✓			M	F	G		L		
B	↓	↓	Cafeteria			✓	↓	↓	↓		↓		
C	↓	↓	2nd Floor Hallway West			✓	↓	↓	↓		↓		
D	↓	↓	2nd Floor Nurses Station			✓	↓	↓	↓		↓		
E	↓	↓	2nd Floor Hallway - East			✓	↓	↓	↓		L		
7A	7	SACM Type II	1st Floor Lobby	✓			S	F	G		↓		
B	↓	↓	1st Floor West Hallway			✓	↓	↓	↓		↓		
C	↓	↓	Cafeteria			✓	↓	↓	↓		↓		
8A	8	FT2 - Brown 12x12 Floor Tile	Kitchen	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
9A	9	Pebble Pattern Resilient Flooring	Kitchen Wash Room	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
10A	10	Vibration Joint cloth	Mech Room #11	✓			T	NF	G		L		
11A	11	Wall Coating	Kitchen	✓				NF	G		L		
B	↓	↓	↓			✓		↓	↓		↓		
C	↓	↓	↓			✓		↓	↓		↓		

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SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-12A	12	Pipe Mastic	Old Boiler Room	✓			T	NF	G				
B	↓	↓	↓			✓	↓	↓	↓				
C	↓	↓	↓			✓	↓	↓	↓				
13A	13	Pipe Fittings	Old Boiler Room	✓			T	F	G				
B	↓	↓	↓			✓	↓	↓	↓				
C	↓	↓	↓			✓	↓	↓	↓				
14A	14	Boiler Breeching	Old Boiler Room	✓			T	F	G				
B	↓	↓	↓			✓	↓	↓	↓				
C	↓	↓	↓			✓	↓	↓	↓				
15A	15	Refractory Mud	Inside Boiler - Old Boiler Room	✓			T	F	G				
B	↓	↓	↓			✓	↓	↓	↓				
C	↓	↓	↓			✓	↓	↓	↓				
16A	16	Blk Tar Pipe Wrap	Room 2VP A/C unit	✓			T	NF	G				
B	↓	↓	Room 261 A/C unit			✓	↓	↓	↓				
C	↓	↓	2nd floor work station A/C unit			✓	↓	↓	↓				
17A	17	Tar Paper Interior Duct Insulation	Mech Room #7	✓			T	NF	G				
B	↓	↓	↓			✓	↓	↓	↓				
C	↓	↓	↓			✓	↓	↓	↓				

A - Analyze *C - Catalogue* *◆ - Analyze only if the previous sample was found to be negative*

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Inspector: J. Waido
Date: 2/6/12
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SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-18A	18	FT3 - White Axia Floor Tile	Near Nurses station	✓			M	NF	G		L		
B	↓	↓	2nd Floor Hallway - East			✓	↓	↓	↓		↓		
C	↓	↓	Room 259			✓	↓	↓	↓		↓		
19A	19	Exterior Soffit	Exterior Soffit	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
20A	20	Exterior Soffit	Exterior Soffit - S. side, Ground Floor	✓			M	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		

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Building ID: 1949 Building
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-21A	21	Cove base + Mastic	N.W. office 1st floor	✓			M	NF	G		L		
B	↓	↓	west Hallway 1st floor			✓	↓	↓	↓		↓		
C	↓	↓	East Hallway 2nd floor			✓	↓	↓	↓		↓		
22A	22	Drywall	Mech Room # [illegible]	✓			M	NF	G		L		
B	↓	↓	East Room - 1st Floor			✓	↓	↓	↓		↓		
C	↓	↓	2nd Floor Utility Room			✓	↓	↓	↓		↓		
23A	23	SACM Type III	1st Floor Records Room	✓			S	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
24 A	24	CT3 - White 2x4 ceiling Tile	1st Floor - N.W. Room	✓			M	F	G		L		
B	↓	↓	1st Floor Records Room			✓	↓	↓	↓		↓		
C	↓	↓	1st Floor - East Hallway			✓	↓	↓	↓		↓		
D	↓	↓	2nd Floor - Hallway East			✓	↓	↓	↓		↓		
E	↓	↓	2nd Floor Hallway West			✓	↓	↓	↓		↓		
25 A	25	CT4 - White 1'x1' ceiling Tile	2nd Floor - Maint. office	✓			M	F	G		L		
B	↓	↓	2nd Floor - S.E. office			✓	↓	↓	↓		↓		
C	↓	↓	2nd Floor - Former pharmacy			✓	↓	↓	↓		↓		

A - Analyze C - Catalogue ◆ - Analyze only if the previous sample was found to be negative

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Nashville, Arkansas

Inspector: J. Waldo
Date: 2/6/12
Building ID: 1949 Building
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SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-26A	26	FT4 - off white 12x12 floor Tile	1st floor - west Hallway	✓			M	NF	G		L		
B	↓	↓	1st floor - Central office			✓	↓	↓	↓		↓		
C	↓	↓	1st floor - East Room			✓	↓	↓	↓		↓		
D	↓	↓	2nd floor - west Hallway	✓			↓	↓	↓		↓		
E	↓	↓	2nd floor - Near elevator			✓	↓	↓	↓		↓		
F	↓	↓	2nd floor - S.E. Room			✓	↓	↓	↓		↓		
27 A	27	Pipe Mastic	1st Floor Hallway Above Drop Ceiling	✓			T	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
28 A	28	Fire Stop	Mech Room #5 Wall	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
29 A	29	Duct ~~Drop~~ Insulation	Mech Room #5	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
30 A	30	Pipe fittings	Mech Room #5	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		

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Asbestos Sampling Chain of Custody/ Field Data Sheet

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PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: J. Mejido
Date: 2/6/12
Building ID: Surgery & ~~East West~~ North-South Wing
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-31A	31	FT4-~~2~~ white 12x12 Floor Tile	Room 270	✓			M	NF	G		L		
B	↓	↓	Hallway & ~~West~~ North End			✓	↓	↓	↓		↓		
C	↓	↓	Surgery & Hallway			✓	↓	↓	↓		↓		
32A	32	CT5-wht 2x4 ceiling Tile	Hallway - South End	✓			M	F	G		L		
B	↓	↓	Recovery Room			✓	↓	↓	↓		↓		
C	↓	↓	Surgery Hallway			✓	↓	↓	↓		↓		
33A	33	CT6-white 1x1 ceiling Tile	Room 271	✓			M	F	G		L		
B	↓	↓	Room 276			✓	↓	↓	↓		↓		
C	↓	↓	Room 278			✓	↓	↓	↓		↓		
34A	34	Drywall	Mech Room #2	✓			M	NF	G		L		
B	↓	↓	North-South Hallway			✓	↓	↓	↓		↓		
C	↓	↓	Surgery Storage Room			✓	↓	↓	↓		↓		
35A	35	Cove base Mastic	Surgery Hallway	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
36A	36	Blue Resilient Flooring	Surgery Area	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		

A - Analyze *C - Catalogue* *◆ - Analyze only if the previous sample was found to be negative*

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Comments

EEG
Environmental Enterprise Group, Inc.

Asbestos Sampling Chain of Custody/ Field Data Sheet

11-0111-275

CLIENT
ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: J. Waldo
Date: 2/6/12
Building ID: Surgery + North-South wing
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-37A	37	Gray Resilient Flooring	Surgery Area	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
38A	38	Wht/Gry Resilient Flooring	Pre-op Area	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
39A	39	FT5 - Tan 12x12 Floor Tile	Outpatient Surgery Recovery	✓			M	NF	G		L		
B	↓	↓	Work Room			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
40A	40	Pipe Mastic	Main ~~Mech~~ Boiler Room	✓			T	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
D	↓	↓	↓			✓	↓	↓	↓		↓		
E	↓	↓	↓			✓	↓	↓	↓		↓		
41 A	41	Pipe Fittings	Main ~~Mech~~ Boiler Room	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
D	↓	↓	↓			✓	↓	↓	↓		↓		

A - Analyze *C - Catalogue* *◆ - Analyze only if the previous sample was found to be negative*

Relinquished by	[signature]	Time 1615	Date 2-9-12	Relinquished by		Time	Date
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Comments

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Asbestos Sampling Chain of Custody/ Field Data Sheet

11-0111-275

CLIENT
ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: J. Weldo
Date: 2/6/12
Building ID: Surgery & North South Wing
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH&E	41	Pipe Fittings	Main ~~Mech~~ Boiler Room			✓	T	F	G		L		
F	↓	↓	↓			✓	↓	↓	↓		↓		
G	↓	↓	↓			✓	↓	↓	↓		↓		

A - Analyze *C - Catalogue* ◆ *- Analyze only if the previous sample was found to be negative*

Relinquished by	[signature]	Time 1615	Date 2-9-12	Relinquished by		Time	Date
Received by	[signature]	Time 1615	Date 2-9-12	Received by		Time	Date

Comments

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Environmental Enterprise Group, Inc.

Asbestos Sampling Chain of Custody/ Field Data Sheet

11-0111-275

CLIENT
ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: J. Waldo
Date: 2/6/12
Building ID: Emergency, Radiology & Physical therapy
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-42A	42	FT6 - Tan 12x12 Floor Tile	Waiting Area	✓			M	NF	G		L		
B	↓	↓	Hallway			✓	↓	↓	↓		↓		
C	↓	↓	S.W. closet			✓	↓	↓	↓		↓		
43A	43	CT7 - Wht 2x4 Ceiling Tile	Hallway - ICU Area	✓			M	F	G		L		
B	↓	↓	Hallway - Emergency			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
44A	44	Cove base Mastic	Hallway - Emergency	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
45A	45	Drywall	Mech Room #10	✓			M	NF	G		L		
B	↓	↓	Emergency Area			✓	↓	↓	↓		↓		
C	↓	↓	ICU Area			✓	↓	↓	↓		↓		
46A	46	FT7 - Tan 12x12 Floor Tile	Emergency Room	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
47A	47	Tar Paper Interior Duct Insulation	Mech Room #10	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		

A - Analyze *C - Catalogue* *◆ - Analyze only if the previous sample was found to be negative*

Relinquished by	[signature]	Time 1615	Date 2-9-12	Relinquished by		Time	Date
Received by	[signature]	Time 1615	Date 2-9-12	Received by		Time	Date

Comments

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Environmental Enterprise Group, Inc.

Asbestos Sampling Chain of Custody/ Field Data Sheet

11-0111-275

CLIENT
ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: JW, JD
Date: 2/6/12
Building ID: Emergency, Radiology + physical therapy
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-48A	48	CT8-white 2'x2' ceiling Tile	Emergency Room	✓			M	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
49A	49	Black Lab Table Top	Lab Area	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
50A	50	Fireproofing	Above Drop ceiling	✓			S	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
D	↓	↓	↓			✓	↓	↓	↓		↓		
E	↓	↓	↓			✓	↓	↓	↓		↓		
F	↓	↓	↓			✓	↓	↓	↓		↓		

A - Analyze *C - Catalogue* ◆ *- Analyze only if the previous sample was found to be negative*

Relinquished by	[signature]	Time 1615	Date 2-9-12	Relinquished by		Time	Date
Received by	[signature]	Time 1615	Date 2-9-12	Received by		Time	Date

Comments

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Asbestos Sampling Chain of Custody/ Field Data Sheet

11-0111-275

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ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: J. Waldo
Date: 2/6/12
Building ID: Dialysis Center
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-51A	51	FT8 - Blue 12x12 Floor Tile	Records Room	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
52 A	52	FT9 - wht/blu 12x12 Floor Tile	Bathroom	✓			M	NF	G		L		
B	↓	↓	Hallway			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
53 A	53	CT9 - wht 2x4 ceiling Tile	Records Room	✓			M	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
54 A	54	Pipe Mastic	Mech Room	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
55 A	55	CT10 - wht 2x4 ceiling Tile	Storage closet	✓			M	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		

A - Analyze *C - Catalogue* *◆ - Analyze only if the previous sample was found to be negative*

Relinquished by	[signature]	Time 1615	Date 2-9-12	Relinquished by		Time	Date
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Comments

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Asbestos Sampling Chain of Custody/ Field Data Sheet

11-0111-275

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ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: J. Waldo
Date: 2/6/12
Building ID: Main Boiler Room
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
MCH-56A	56	Duct Insulation	Main Boiler Room	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
57A	57	CT11-WHT 2x4 Ceiling Tile	Main Boiler Room	✓			M	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
58A	58	Boiler Breeching	Main Boiler Room	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
59A	59	Boiler Gasket	Main Boiler Room	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
60A	60	Condensate Tank Insulation	Main Boiler Room	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
61A	61	High-Pressure Steam Pipe Insulation	Main Boiler Room	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		

A - Analyze *C - Catalogue* *◆ - Analyze only if the previous sample was found to be negative*

Relinquished by	[signature]	Time 1615	Date 2-9-12	Relinquished by		Time	Date
Received by	[signature]	Time 1615	Date 2-9-12	Received by		Time	Date

Comments

EEG
Environmental Enterprise Group, Inc.

Asbestos Sampling Chain of Custody/ Field Data Sheet

11-0111-275

CLIENT
ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: J. Waido
Date: 2/6/12
Building ID: Main Boiler Room
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-62A	62	Hot water pipe Insulation	Main Boiler Room	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
63A	63	Condensate pipe Insulation	Main Boiler Room	✓			T	F	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		

A - Analyze *C - Catalogue* ◆ *- Analyze only if the previous sample was found to be negative*

Relinquished by	[signature]	Time 1615	Date 2-9-12	Relinquished by		Time	Date
Received by	[signature]	Time 1615	Date 2-9-12	Received by		Time	Date

Comments

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Environmental Enterprise Group, Inc.

Asbestos Sampling Chain of Custody/ Field Data Sheet

11-0111-275

CLIENT
ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: J. Waldo
Date: 2/6/12
Building ID: Various Locations
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH-64A	64	Exterior Window Glaze	Exterior Windows -1949 Building	✓			S	F	G		L	34 units	
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
65	65	Fire Doors (Assumed)	Mechanical Rooms + Stairwells				M	NF	G		L		
66	66	Metal-bestos Flue (Assumed)	1961 Addition Boiler Room				T	NF	G		L	30LF	
67	67	Exhaust Stack (Assumed)	1961 Addition Boiler Room				T	NF	G		L	200#	
68A	68	Exterior Window Putty	Exterior Windows -1961 Building	✓			M	NF	G		L	36 units	
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
69A	69	Wall Plaster	Phone Booth - 1949 Building	✓			S	F	G		L		
B	↓	↓	East Room 1949 Building			✓	↓	↓	↓		↓		
C	↓	↓	Mech Room # 1949 Building			✓	↓	↓	↓		↓		
70A	70	Duct Tape	Mech Room #10 - Radiology Area	✓			T	NF	G		L		
B	↓	↓	↓			✓	↓	↓	↓		↓		
C	↓	↓	↓			✓	↓	↓	↓		↓		
71	71	Built up Roofing	1949 Building	✓									
72	72	Built up Roofing	1949-61 @ connector	✓									
73	73	Built up Roofing	1961 Building	✓									

A - Analyze *C - Catalogue* *◆ - Analyze only if the previous sample was found to be negative*

Relinquished by		Time 1615	Date 2-9-12	Relinquished by		Time	Date
Received by	Stephen	Time 1615	Date 2-9-12	Received by		Time	Date

Comments

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11-0111-275

CLIENT
ALL Consulting
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

PROPERTY
Former Howard County Hospital
Nashville, Arkansas

Inspector: J. Waldo
Date: 2/6/12
Building ID: Various
Turnaround Time: Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (FT1 - 12 x 12 White Floor Tile)	SAMPLE LOCATION	A	C	◆	CLASS (S, T, M)	FRIABILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	POT DAM (L, M, H)	QTY	DIAG KEY
HCH 74	74	Built Up Roofing	South 1/2 of North-South wing	✓			M	NF	G		L		
75	75	Built up Roofing	North 1/2 of North-South wing	✓			M	NF	G		L		
76	76	Built up Roofing	Connector between Recovery & Surgery	✓			M	NF	G		L		
77	77	Built up Roofing	Surgery	✓			M	NF	G		L		
78	78	Built up Roofing - Edge	Surgery	✓			M	NF	G		L		
79	79	Built up Roofing	Emergency	✓			M	NF	G		L		
80	80	Built up Roofing - Edge	Emergency	✓			M	NF	G		L		
81	81	Asphalt Shingle	Emergency Entrance canopy	✓			M	NF	G		L		
82	82	Dust on floor	East Room 1949 Bldg 1st floor	✓									
83	83	Dust on floor	West Hall 2nd floor 1949 Bldg	✓									
84	84	Dust on floor	Lobby 1961 Bldg	✓									
85	85	Dust on floor	2nd floor Nurses station 1961 Bldg	✓									
86	86	Dust on floor	North-South wing Room 271	✓									
87	87	Dust on floor	Surgical Hallway	✓									
88	88	Dust on floor	Main Boiler Room	✓									
89	89	Dust on floor	Emergency Room Hallway	✓									

A - Analyze *C - Catalogue* *◆ - Analyze only if the previous sample was found to be negative*

Relinquished by		Time 1615	Date 2-9-12	Relinquished by		Time	Date
Received by		Time 1615	Date 2-9-12	Received by		Time	Date

Comments

EEG
Environmental Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / 1961 Addition
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo
Date Sampled: 2/ 6/2012
Reported: 2/13/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
1	HCH-1A	Yes 1	None Detected	Cellulose	<1%	Calcite	40%
				Quartz	2%	Particulate Matter	58%
Sample Description: Off White Cove Base Lobby Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
1	HCH-1A	Yes 2	None Detected	Cellulose	2%	Calcite	15%
				Quartz	2%	Particulate Matter	81%
Sample Description: Yellow Cove Base Mastic Lobby Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
2	HCH-1B	Yes 1	None Detected	Cellulose	<1%	Calcite	40%
				Quartz	2%	Perlite	3%
Sample Description: Off White Cove Base Kitchen Area				Particulate Matter	55%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
2	HCH-1B	Yes 2	None Detected	Cellulose	2%	Calcite	15%
				Quartz	1%	Particulate Matter	82%
Sample Description: Yellow Cove Base Mastic Kitchen Area							

Current information listed above applies to the standards or procedures identified and the samples actually tested. The methodology(s) listed in this report is the only methodology(s) used. The methodology listed in this report is a deviation from NVLAP's specific scope of accreditation (EPA-600/M-4-82-020 method). Each percentage reported above is a visual estimation of total composition, unless otherwise noted in this report. Asbestos detection limit is less than 1 percent.
Test measurements are traceable to Standard Reference Material 1866a and 1867. The results are valid only for the materials tested. The information listed above is for the exclusive use of the client listed above. Sample results shall not be reproduced in any form or fashion for advertising or other purposes in connection with EEG's name or signature without consent from EEG. Sample results shall not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. Samples not consumed in analysis will be retained for a maximum of 30 days. Samples may be returned to the client upon request. Accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of Accreditation under NVLAP code 101587-0.

NVLAP®
NVLAP LAB CODE 101587-0

Respectfully Submitted,
EEG, Inc
Sara R Leavell
Analyst
Mike Cole
NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / 1961 Addition
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo

Date Sampled: 2/ 6/2012
Reported: 2/13/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
3	HCH-1C	Yes 1	None Detected	Cellulose	<1%	Calcite	35%
				Quartz	1%	Particulate Matter	64%
Sample Description: Brown Cove Base 2nd Floor West Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
3	HCH-1C	Yes 2	None Detected	Cellulose	<1%	Calcite	15%
				Quartz	3%	Particulate Matter	82%
Sample Description: Brown Cove Base Mastic 2nd Floor West Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
4	HCH-2A	No	Positive	Chrysotile Asbestos	5%	Cellulose	<1%
				Calcite	20%	Mica	40%
Sample Description: White / Brown Spray Applied Ceiling Material 2nd Floor West Hallway				Quartz	2%	Particulate Matter	33%

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
9	HCH-3A	Yes 1	Positive	Chrysotile Asbestos	8%	Cellulose	<1%
				Calcite	50%	Quartz	2%
Sample Description: Tan Floor Tile Lobby Area				Particulate Matter	40%		

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Respectfully Submitted,
EEG, Inc
Sara R Sewell
Analyst
NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / 1961 Addition
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo

Date Sampled: 2/ 6/2012
Reported: 2/13/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
9	HCH-3A	Yes 2	Positive	Chrysotile Asbestos	5%	Cellulose	3%
				Calcite	10%	Quartz	2%
Sample Description: Black Mastic Lobby Area				Particulate Matter	80%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
12	HCH-4A	Yes 1	None Detected	Cellulose	10%	Fiberglass	1%
				Quartz	2%	Perlite	10%
Sample Description: White / Brown Drywall Old Boiler Room				Gypsum Mortar	60%	Particulate Matter	17%

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
12	HCH-4A	Yes 2	None Detected	Cellulose	<1%	Calcite	65%
				Mica	15%	Quartz	2%
Sample Description: White Drywall - Mud Old Boiler Room				Perlite	5%	Particulate Matter	13%

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
12	HCH-4A	Yes	None Detected	Cellulose	9%	Fiberglass	1%
				Calcite	7%	Mica	2%
Sample Description: White / Brown Composite Analysis Old Boiler Room				Quartz	2%	Perlite	10%
				Gypsum Mortar	54%	Particulate Matter	15%

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
13	HCH-4B	No	None Detected	Cellulose	10%	Fiberglass	2%
				Quartz	3%	Gypsum Mortar	75%
Sample Description: White / Brown				Particulate Matter	10%		
Drywall							
Room 261							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
14	HCH-4C	No	None Detected	Cellulose	15%	Fiberglass	10%
				Quartz	3%	Gypsum Mortar	65%
Sample Description: White / Brown				Particulate Matter	7%		
Drywall							
2nd Floor Work Station							

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
15	HCH-5A	No	None Detected	Cellulose	45%	Mineral Wool	25%
				Quartz	2%	Perlite	15%
Sample Description: White / Off White				Particulate Matter	13%		
Ceiling Tile							
1st Floor Southwest Office							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
16	HCH-5B	No	None Detected	Cellulose	45%	Mineral Wool	25%
				Quartz	2%	Perlite	15%
Sample Description: White / Off White				Particulate Matter	13%		
Ceiling Tile							
1st Floor Southwest Office							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
17	HCH-5C	No	None Detected	Cellulose	45%	Mineral Wool	25%
				Quartz	2%	Perlite	20%
Sample Description: White / Off White				Particulate Matter	8%		
Ceiling Tile							
1st Floor Southwest Office							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
18	HCH-6A	No	None Detected	Cellulose	45%	Mineral Wool	25%
				Quartz	2%	Perlite	15%
Sample Description: White / Off White				Particulate Matter	13%		
Ceiling Tile							
1st Floor Admin Hallway							

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
19	HCH-6B	No	None Detected	Cellulose	50%	Mineral Wool	10%
				Quartz	2%	Perlite	20%
Sample Description: White / Off White				Particulate Matter	18%		
Ceiling Tile							
Cafeteria							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
20	HCH-6C	No	None Detected	Cellulose	40%	Mineral Wool	20%
				Calcite	5%	Quartz	2%
Sample Description: White / Off White				Perlite	25%	Particulate Matter	8%
Ceiling Tile							
2nd Floor West Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
21	HCH-6D	No	None Detected	Cellulose	40%	Mineral Wool	20%
				Calcite	5%	Quartz	2%
Sample Description: White / Off White				Perlite	25%	Particulate Matter	8%
Ceiling Tile							
2nd Floor Nurses Station							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
22	HCH-6E	No	None Detected	Cellulose	45%	Mineral Wool	20%
				Quartz	2%	Perlite	20%
Sample Description: White / Off White				Particulate Matter	13%		
Ceiling Tile							
2nd Floor Hallway East							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
23	HCH-7A	No	Positive	Chrysotile Asbestos	5%	Cellulose	<1%
				Calcite	15%	Mica	35%
Sample Description: Off White				Quartz	1%	Particulate Matter	44%
Spray Applied Ceiling Material							
1st Floor Lobby							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
26	HCH-8A	Yes 1	None Detected	Calcite	55%	Mica	1%
				Quartz	2%	Particulate Matter	42%
Sample Description: Brown							
Floor Tile							
Kitchen							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
26	HCH-8A	Yes 2	None Detected	Cellulose	4%	Synthetic Fiber	2%
				Calcite	10%	Quartz	2%
Sample Description: Black				Particulate Matter	82%		
Mastic							
Kitchen							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
27	HCH-8B	Yes 1	None Detected	Cellulose	<1%	Calcite	55%
				Mica	<1%	Quartz	3%
Sample Description: Brown				Particulate Matter	42%		
Floor Tile							
Kitchen							

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Dua R Leavell
Analyst

NVLAP Signatory

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
27	HCH-8B	Yes 2	None Detected	Cellulose	5%	Synthetic Fiber	1%
				Calcite	15%	Quartz	2%
Sample Description: Black Mastic Kitchen				Particulate Matter	77%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
28	HCH-8C	No	None Detected	Cellulose	<1%	Calcite	55%
				Mica	1%	Quartz	2%
Sample Description: Brown Floor Tile Kitchen				Particulate Matter	42%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
29	HCH-9A	Yes 1	None Detected	Cellulose	20%	Fiberglass	5%
				Calcite	30%	Quartz	2%
Sample Description: Off White / Tan Resilient Floor Covering Kitchen Wash Room				Particulate Matter	43%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
29	HCH-9A	Yes 2	None Detected	Cellulose	2%	Calcite	10%
				Quartz	1%	Particulate Matter	87%
Sample Description: White Mastic Kitchen Wash Room							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
30	HCH-9B	Yes 1	None Detected	Cellulose	25%	Fiberglass	5%
				Calcite	25%	Quartz	2%
Sample Description: Off White / Tan				Particulate Matter	43%		
Resilient Floor Covering							
Kitchen Wash Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
30	HCH-9B	Yes 2	None Detected	Cellulose	3%	Calcite	15%
				Quartz	4%	Particulate Matter	78%
Sample Description: White / Brown							
Mastic & Debris							
Kitchen Wash Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
31	HCH-9C	Yes 1	None Detected	Cellulose	20%	Fiberglass	5%
				Calcite	35%	Quartz	2%
Sample Description: Off White / Tan				Particulate Matter	38%		
Resilient Floor Covering							
Kitchen Wash Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
31	HCH-9C	Yes 2	None Detected	Cellulose	<1%	Calcite	10%
				Quartz	2%	Particulate Matter	88%
Sample Description: White							
Mastic							
Kitchen Wash Room							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
32	HCH-10A	No	Positive	Chrysotile Asbestos	70%	Cellulose	15%
				Synthetic Fiber	3%	Particulate Matter	12%
Sample Description: White Vibration Joint Cloth Mech Room #11							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
33	HCH-11A	No	None Detected	Cellulose	<1%	Quartz	4%
				Perlite	10%	Gypsum Mortar	50%
Sample Description: White Wall Coating Kitchen				Particulate Matter	36%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
34	HCH-11B	No	None Detected	Quartz	5%	Perlite	10%
				Gypsum Mortar	55%	Particulate Matter	30%
Sample Description: White Wall Coating Kitchen							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
35	HCH-11C	No	None Detected	Quartz	5%	Perlite	15%
				Gypsum Mortar	55%	Particulate Matter	25%
Sample Description: White Wall Coating Kitchen							

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36	HCH-12A	Yes 1	Positive	Chrysotile Asbestos	10%	Cellulose	<1%
				Calcite	20%	Quartz	2%
Sample Description: White Pipe Mastic Old Boiler Room				Particulate Matter	68%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
36	HCH-12A	Yes 2	None Detected	Mineral Wool	97%	Particulate Matter	3%
Sample Description: Brown Pipe Insulation Old Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
39	HCH-13A	No	None Detected	Cellulose	<1%	Mineral Wool	35%
				Calcite	30%	Diatomaceous Earth	10%
Sample Description: Off White Pipe Fitting Old Boiler Room				Quartz	3%	Particulate Matter	22%

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
40	HCH-13B	No	None Detected	Cellulose	<1%	Mineral Wool	35%
				Calcite	30%	Diatomaceous Earth	10%
Sample Description: Off White Pipe Fitting Old Boiler Room				Quartz	4%	Particulate Matter	21%

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Respectfully Submitted,
EEG, Inc

Analyst

NVLAP Signatory

EEG
Environmental Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / 1961 Addition
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo

Date Sampled: 2/ 6/2012
Reported: 2/14/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
41	HCH-13C	No	None Detected	Cellulose	<1%	Mineral Wool	35%
				Calcite	30%	Diatomaceous Earth	15%
Sample Description: Off White				Quartz	4%	Particulate Matter	16%
Pipe Fittings							
Old Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
42	HCH-14A	No	Positive	Chrysotile Asbestos	3%	Amosite Asbestos	15%
				Calcite	65%	Quartz	2%
Sample Description: White				Particulate Matter	15%		
Boiler Breeching							
Old Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
45	HCH-15A	No	Positive	Chrysotile Asbestos	5%	Cellulose	<1%
				Calcite	60%	Mica	5%
Sample Description: Gray / Brown				Quartz	2%	Particulate Matter	28%
Refractory Mud							
Inside Boiler - Old Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
48	HCH-16A	No	Positive	Chrysotile Asbestos	3%	Cellulose	15%
				Calcite	5%	Quartz	1%
Sample Description: Black				Particulate Matter	76%		
Tar Pipe Wrap							
Room 240 A/C Unit							

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
51	HCH-17A	Yes 1	None Detected	Cellulose	2%	Fiberglass	10%
				Calcite	15%	Quartz	2%
Sample Description: Black Duct Insulation Mech Room #7				Particulate Matter	71%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
51	HCH-17A	Yes 2	None Detected	Mineral Wool	95%	Particulate Matter	5%
Sample Description: Brown Duct Insulation Mech Room #7							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
52	HCH-17B	Yes 1	None Detected	Cellulose	<1%	Fiberglass	15%
				Calcite	10%	Quartz	2%
Sample Description: Black Duct Insulation Mech Room #7				Particulate Matter	73%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
52	HCH-17B	Yes 2	None Detected	Mineral Wool	97%	Particulate Matter	3%
Sample Description: Brown Duct Insulation Mech Room #7							

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
53	HCH-17C	Yes 1	None Detected	Cellulose	<1%	Fiberglass	15%
				Calcite	10%	Quartz	2%
Sample Description: Black				Particulate Matter	73%		
Duct Insulation							
Mech Room #7							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
53	HCH-17C	Yes 2	None Detected	Mineral Wool	97%	Particulate Matter	3%
Sample Description: Brown							
Duct Insulation							
Mech Room #7							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
54	HCH-18A	Yes 1	None Detected	Calcite	55%	Quartz	2%
				Particulate Matter	43%		
Sample Description: White							
Floor Tile							
Near Nurses Station							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
54	HCH-18A	Yes 2	None Detected	Cellulose	4%	Calcite	35%
				Quartz	2%	Particulate Matter	59%
Sample Description: Yellow							
Mastic							
Near Nurses Station							

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EEG, Inc

Sara R Pearell
Analyst

Mike Cole
NVLAP Signatory

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Environmental Enterprise Group, Inc.

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
54	HCH-18A	Yes 3	None Detected	Cellulose	<1%	Calcite	15%
				Quartz	4%	Gypsum Mortar	35%
Sample Description: Black Floor Material Near Nurses Station				Particulate Matter	46%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
54	HCH-18A	Yes 4	None Detected	Fiberglass	<1%	Calcite	45%
				Quartz	7%	Particulate Matter	48%
Sample Description: Brown / White Floor Material Near Nurses Station							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
55	HCH-18B	Yes 1	None Detected	Calcite	60%	Quartz	2%
				Particulate Matter	38%		
Sample Description: White Floor Tile 2nd Floor Hallway East							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
55	HCH-18B	Yes 2	None Detected	Cellulose	3%	Calcite	35%
				Quartz	2%	Particulate Matter	60%
Sample Description: Yellow Mastic 2nd Floor Hallway East							

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Tina R Feavell
Analyst
NVLAP Signatory

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
55	HCH-18B	Yes 3	Positive	Chrysotile Asbestos	8%	Cellulose	2%
				Calcite	45%	Quartz	2%
Sample Description: Brown Floor Tile 2nd Floor Hallway East				Particulate Matter	43%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
55	HCH-18B	Yes 4	Positive	Chrysotile Asbestos	5%	Cellulose	1%
				Calcite	15%	Quartz	2%
Sample Description: Black Mastic 2nd Floor Hallway East				Particulate Matter	77%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
56	HCH-18C	Yes 1	None Detected	Calcite	55%	Quartz	2%
				Particulate Matter	43%		
Sample Description: White Floor Tile Room 259							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
56	HCH-18C	Yes 2	None Detected	Cellulose	3%	Calcite	30%
				Quartz	3%	Particulate Matter	64%
Sample Description: Yellow Mastic Room 259							

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Sara R Leavell
Analyst
NVLAP Signatory

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
57	HCH-19A	No	Positive	Chrysotile Asbestos	12%	Cellulose	2%
				Fiberglass	2%	Calcite	40%
Sample Description: White				Quartz	2%	Particulate Matter	42%
Exterior Soffit							
Exterior Soffit							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
60	HCH-20A	No	None Detected	Cellulose	10%	Fiberglass	5%
				Quartz	3%	Gypsum Mortar	70%
Sample Description: White / Brown				Particulate Matter	12%		
Exterior Soffit							
Exterior Soffit South Side Ground Floor							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
61	HCH-20B	No	None Detected	Cellulose	10%	Fiberglass	15%
				Quartz	3%	Gypsum Mortar	60%
Sample Description: White / Brown				Particulate Matter	12%		
Exterior Soffit							
Exterior Soffit South Side Ground Floor							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
62	HCH-20C	No	None Detected	Cellulose	5%	Fiberglass	15%
				Quartz	3%	Gypsum Mortar	70%
Sample Description: White / Brown				Particulate Matter	7%		
Exterior Soffit							
Exterior Soffit South Side Ground Floor							

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Sara R Jeavell
Analyst

NVLAP Signatory

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
63	HCH-21A	Yes 1	None Detected	Cellulose	<1%	Calcite	35%
				Quartz	2%	Particulate Matter	63%
Sample Description: Brown Cove Base Northwest Office 1st Floor							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
63	HCH-21A	Yes 2	None Detected	Cellulose	3%	Calcite	10%
				Quartz	2%	Particulate Matter	85%
Sample Description: Yellow / White Cove Base Mastic Northwest Office 1st Floor							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
64	HCH-21B	Yes 1	None Detected	Calcite	45%	Quartz	2%
				Particulate Matter	53%		
Sample Description: Off White Cove Base West Hallway 1st Floor							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
64	HCH-21B	Yes 2	None Detected	Cellulose	2%	Calcite	20%
				Quartz	2%	Particulate Matter	76%
Sample Description: Yellow Cove Base Mastic West Hallway 1st Floor							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
65	HCH-21C	Yes 1	None Detected	Cellulose	<1%	Calcite	40%
				Mica	<1%	Quartz	2%
Sample Description: Brown Cove Base East Hallway 2nd Floor				Particulate Matter	58%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
65	HCH-21C	Yes 2	Positive	Chrysotile Asbestos	4%	Cellulose	<1%
				Calcite	15%	Quartz	2%
Sample Description: Brown Cove Base Mastic East Hallway 2nd Floor				Particulate Matter	79%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
66	HCH-22A	Yes 1	None Detected	Cellulose	10%	Fiberglass	10%
				Quartz	3%	Gypsum Mortar	70%
Sample Description: White / Brown Drywall Mech Room #5				Particulate Matter	7%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
66	HCH-22A	Yes 2	None Detected	Cellulose	99%	Particulate Matter	1%
Sample Description: White Drywall - Tape Mech Room #5							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
66	HCH-22A	Yes 3	None Detected	Cellulose	<1%	Calcite	65%
				Mica	15%	Quartz	2%
Sample Description: White Drywall - Mud Mech Room #5				Particulate Matter	18%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
66	HCH-22A	Yes	None Detected	Cellulose	18%	Fiberglass	8%
				Calcite	7%	Mica	2%
Sample Description: White / Brown Composite Analysis Mech Room #5				Quartz	3%	Gypsum Mortar	56%
				Particulate Matter	6%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
67	HCH-22B	Yes 1	None Detected	Cellulose	10%	Fiberglass	10%
				Quartz	3%	Gypsum Mortar	70%
Sample Description: White / Brown Drywall East Room 1st Floor				Particulate Matter	7%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
67	HCH-22B	Yes 2	None Detected	Cellulose	97%	Particulate Matter	3%
Sample Description: White Drywall - Tape East Room 1st Floor							

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67	HCH-22B	Yes 3	None Detected	Cellulose	<1%	Calcite	55%
				Mica	15%	Quartz	2%
Sample Description: White Drywall - Mud East Room 1st Floor				Particulate Matter	28%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
67	HCH-22B	Yes	None Detected	Cellulose	18%	Fiberglass	8%
				Calcite	6%	Mica	2%
Sample Description: White / Brown Composite Analysis East Room 1st Floor				Quartz	3%	Gypsum Mortar	56%
				Particulate Matter	7%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
68	HCH-22C	Yes 1	None Detected	Cellulose	10%	Fiberglass	10%
				Quartz	3%	Gypsum Mortar	70%
Sample Description: White / Brown Drywall 2nd Floor Utility Room				Particulate Matter	7%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
68	HCH-22C	Yes 2	None Detected	Cellulose	99%	Particulate Matter	1%
Sample Description: White Drywall - Tape 2nd Floor Utility Room							

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Respectfully Submitted,
EEG, Inc.

Analyst

NVLAP Signatory

EEG
Environmental Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / 1949 Building
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo

Date Sampled: 2/ 6/2012
Reported: 2/14/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
68	HCH-22C	Yes	None Detected				
		3		Calcite	65%	Mica	15%
				Quartz	2%	Particulate Matter	18%
Sample Description: White Drywall - Mud 2nd Floor Utility Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
68	HCH-22C	Yes	None Detected				
				Calcite	18%	Fiberglass	8%
				Calcite	7%	Mica	2%
Sample Description: White / Brown				Quartz	3%	Gypsum Mortar	56%
Composite Analysis				Particulate Matter	6%		
2nd Floor Utility Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
69	HCH-23A	No	None Detected				
				Cellulose	<1%	Calcite	30%
				Mica	15%	Quartz	2%
Sample Description: White				Particulate Matter	53%		
Spray Applied Ceiling Material							
1st Floor Records Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
70	HCH-23B	No	None Detected				
				Cellulose	2%	Calcite	35%
				Mica	20%	Quartz	2%
Sample Description: White				Particulate Matter	41%		
Spray Applied Ceiling Material							
1st Floor Records Room							

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Respectfully Submitted,
EEG, Inc

Analyst

NVLAP Signatory

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www.eegonline.com

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
71	HCH-23C	No	None Detected	Cellulose	<1%	Calcite	25%
				Mica	20%	Quartz	2%
Sample Description: White Spray Applied Ceiling Material 1st Floor Records Room				Particulate Matter	53%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
72	HCH-24A	No	None Detected	Cellulose	50%	Mineral Wool	15%
				Quartz	2%	Perlite	15%
Sample Description: White / Off White Ceiling Tile 1st Floor Northwest Room				Particulate Matter	18%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
73	HCH-24B	No	None Detected	Cellulose	5%	Mineral Wool	75%
				Quartz	2%	Perlite	5%
Sample Description: Off White Ceiling Tile 1st Floor Records Room				Particulate Matter	13%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
74	HCH-24C	No	None Detected	Cellulose	2%	Mineral Wool	80%
				Quartz	2%	Perlite	3%
Sample Description: Off White Ceiling Tile 1st Floor East Hallway				Particulate Matter	13%		

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Respectfully Submitted,
EEG, Inc.

Analyst

NVLAP Signatory

EEG
Environmental Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
75	HCH-24D	No	None Detected	Cellulose	3%	Mineral Wool	80%
				Quartz	2%	Perlite	5%
Sample Description: Off White Ceiling Tile 2nd Floor Hallway East				Particulate Matter	10%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
76	HCH-24E	No	None Detected	Cellulose	3%	Mineral Wool	80%
				Quartz	2%	Perlite	5%
Sample Description: Off White Ceiling Tile 2nd Floor Hallway West				Particulate Matter	10%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
77	HCH-25A	No	None Detected	Cellulose	5%	Mineral Wool	70%
				Calcite	10%	Quartz	2%
Sample Description: Off White Ceiling Tile 2nd Floor Maintenance Office				Perlite	5%	Particulate Matter	8%

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
78	HCH-25B	No	None Detected	Cellulose	5%	Mineral Wool	75%
				Calcite	5%	Quartz	2%
Sample Description: Off White Ceiling Tile 2nd Floor Southeast Office				Perlite	5%	Particulate Matter	8%

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NVLAP LAB CODE 101587-0

Respectfully Submitted,
EEG, Inc
Sara R Learell
Analyst
NVLAP Signatory

EEG
Environmental Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
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Methodology: EPA-600/R-93/116
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Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

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Sampled By: J. Waldo
Date Sampled: 2/ 6/2012
Reported: 2/14/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
79	HCH-25C	No	None Detected	Cellulose	5%	Mineral Wool	70%
				Calcite	5%	Quartz	2%
Sample Description: Off White				Perlite	5%	Particulate Matter	13%
Ceiling Tile							
2nd Floor Former Pharmacy							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
80	HCH-26A	Yes 1	Positive	Chrysotile Asbestos	3%	Cellulose	<1%
				Calcite	55%	Quartz	2%
Sample Description: Off White				Particulate Matter	40%		
Floor Tile							
1st Floor West Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
80	HCH-26A	Yes 2	Positive	Chrysotile Asbestos	10%	Cellulose	2%
				Calcite	15%	Quartz	2%
Sample Description: Black				Particulate Matter	71%		
Mastic							
1st Floor West Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
86	HCH-27A	No	Positive	Chrysotile Asbestos	10%	Cellulose	<1%
				Fiberglass	15%	Calcite	25%
Sample Description: Off White				Quartz	2%	Particulate Matter	48%
Pipe Mastic							
1st Floor Hallway Above Drop Ceiling							

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Respectfully Submitted,
EEG, Inc

Sara R Jewell
Analyst

NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

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Sample(s) Taken From: Former Howard Co. Hospital / 1949 Building
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

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Date Sampled: 2/ 6/2012
Reported: 3/ 1/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
83	HCH-26D	Yes 1	Positive	Chrysotile Asbestos	3%	Cellulose	<1%
				Calcite	55%	Quartz	2%
Sample Description: White Floor Tile 2nd Floor - West Hallway				Particulate Matter	40%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
83	HCH-26D	Yes 2	Positive	Chrysotile Asbestos	7%	Cellulose	2%
				Calcite	20%	Quartz	2%
Sample Description: Black Mastic 2nd Floor - West Hallway				Particulate Matter	69%		

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Respectfully Submitted,
EEG, Inc.

Analyst

NVLAP Signatory

EEG
Environmental Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

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Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / 1949 Building
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

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Date Sampled: 2/ 6/2012
Reported: 2/14/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
89	HCH-28A	No	None Detected	Calcite	40%	Quartz	20%
				Particulate Matter	40%		
Sample Description: Gray Fire Stop Mech Room #5 Wall							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
90	HCH-28B	No	None Detected	Cellulose	<1%	Calcite	40%
				Quartz	20%	Particulate Matter	40%
Sample Description: Gray Fire Stop Mech Room #5 Wall							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
91	HCH-28C	No	None Detected	Cellulose	<1%	Calcite	40%
				Quartz	25%	Particulate Matter	35%
Sample Description: Gray Fire Stop Mech Room #5 Wall							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
92	HCH-29A	Yes 1	None Detected	Fiberglass	90%	Calcite	3%
				Particulate Matter	7%		
Sample Description: Yellow Duct Insulation Mech Room #5							

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EEG, Inc.

Analyst

NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

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www.eegonline.com

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
92	HCH-29A	Yes 2	None Detected	Cellulose	95%	Particulate Matter	5%
Sample Description: White Woven Material Mech Room #5							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
93	HCH-29B	Yes 1	None Detected	Fiberglass	95%	Particulate Matter	5%
Sample Description: Yellow Duct Insulation Mech Room #5							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
93	HCH-29B	Yes 2	None Detected	Cellulose	90%	Particulate Matter	10%
Sample Description: White Woven Material Mech Room #5							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
94	HCH-29C	No	None Detected	Cellulose	90%	Particulate Matter	10%
Sample Description: White Duct Insulation Mech Room #5							

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NVLAP LAB CODE 101587-0

Respectfully Submitted,
EEG, Inc
Tonya R Jeavell
Analyst
NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
95	HCH-30A	No	None Detected	Cellulose	<1%	Mineral Wool	35%
				Calcite	40%	Diatomaceous Earth	3%
Sample Description: Off White				Quartz	2%	Particulate Matter	20%
Pipe Fitting							
Mech Room #5							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
96	HCH-30B	No	None Detected	Cellulose	<1%	Mineral Wool	35%
				Calcite	35%	Diatomaceous Earth	5%
Sample Description: Off White				Quartz	3%	Particulate Matter	22%
Pipe Fitting							
Mech Room #5							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
97	HCH-30C	No	None Detected	Cellulose	<1%	Mineral Wool	30%
				Calcite	35%	Diatomaceous Earth	5%
Sample Description: Pipe Fitting				Quartz	3%	Particulate Matter	27%
Pipe Fitting							
Mech Room #5							

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Analyst
NVLAP Signatory

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Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
98	HCH-31A	Yes 1	Positive	Chrysotile Asbestos	2%	Calcite	55%
				Quartz	2%	Particulate Matter	41%
Sample Description: Off White Floor Tile Room 270							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
98	HCH-31A	Yes 2	Positive	Chrysotile Asbestos	8%	Cellulose	2%
				Calcite	15%	Quartz	2%
Sample Description: Black Mastic Room 270				Particulate Matter	73%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
101	HCH-32A	No	None Detected	Cellulose	3%	Mineral Wool	75%
				Calcite	5%	Quartz	2%
Sample Description: White Ceiling Tile Hallway South End				Perlite	3%	Particulate Matter	12%

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
102	HCH-32B	No	None Detected	Cellulose	3%	Mineral Wool	70%
				Calcite	5%	Quartz	2%
Sample Description: White / Off White Ceiling Tile Recovery Room				Perlite	5%	Particulate Matter	15%

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EEG, Inc.
Sara R Seavell
Analyst
NVLAP Signatory

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Environmental
Enterprise Group, Inc.

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Phone (479) 968-6767 Fax (479) 968-1956
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Reported: 2/14/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
103	HCH-32C	No	None Detected	Cellulose	5%	Mineral Wool	70%
				Quartz	2%	Perlite	5%
Sample Description: White / Off White				Particulate Matter	18%		
Ceiling Tile							
Surgery Hallway							

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Respectfully Submitted,
EEG, Inc

Analyst

NVLAP Signatory

EEG
Environmental Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / Surgery & N/S Wing
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo
Date Sampled: 2/ 6/2012
Reported: 2/15/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
104	HCH-33A	No	None Detected	Cellulose	5%	Mineral Wool	70%
				Quartz	2%	Perlite	5%
Sample Description: Off White				Particulate Matter	18%		
Ceiling Tile							
Room 271							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
105	HCH-33B	No	None Detected	Cellulose	5%	Mineral Wool	70%
				Calcite	5%	Quartz	2%
Sample Description: Off White				Perlite	5%	Particulate Matter	13%
Ceiling Tile							
Room 276							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
106	HCH-33C	No	None Detected	Cellulose	5%	Mineral Wool	70%
				Calcite	5%	Quartz	2%
Sample Description: Off White				Perlite	7%	Particulate Matter	11%
Ceiling Tile							
Room 278							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
107	HCH-34A	No	None Detected	Cellulose	10%	Fiberglass	10%
				Quartz	2%	Gypsum Mortar	70%
Sample Description: White / Brown				Particulate Matter	8%		
Drywall							
Mech Room #2							

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis
108	HCH-34B	Yes 1	None Detected

Sample Description: White / Brown
Drywall
North-South Hallway

This material contains approximately

Cellulose	10%	Fiberglass	10%
Quartz	2%	Gypsum Mortar	70%
Particulate Matter	8%		

Sample #	Client Sample ID:	Layered	Analysis
108	HCH-34B	Yes 2	Positive

Sample Description: White
Drywall - Mud
North-South Hallway

This material contains approximately

Chrysotile Asbestos	2%	Cellulose	<1%
Calcite	60%	Mica	20%
Quartz	2%	Particulate Matter	16%

Sample #	Client Sample ID:	Layered	Analysis
108	HCH-34B	Yes	Trace

Sample Description: White / Brown
Composite Analysis
North-South Hallway

This material contains approximately

Chrysotile Asbestos	<1%	Cellulose	9%
Fiberglass	9%	Calcite	9%
Mica	3%	Quartz	2%
Gypsum Mortar	60%	Particulate Matter	8%

Sample #	Client Sample ID:	Layered	Analysis
109	HCH-34C	No	None Detected

Sample Description: White / Brown
Drywall
Surgery Storage Room

This material contains approximately

Cellulose	10%	Fiberglass	5%
Quartz	3%	Gypsum Mortar	70%
Particulate Matter	12%		

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
110	HCH-35A	No	None Detected	Cellulose	3%	Mineral Wool	2%
				Calcite	30%	Quartz	2%
Sample Description: Brown Cove Base Mastic Surgery Hallway				Particulate Matter	63%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
111	HCH-35B	No	None Detected	Cellulose	<1%	Calcite	15%
				Quartz	2%	Particulate Matter	83%
Sample Description: Yellow Cove Base Mastic Surgery Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
112	HCH-35C	No	None Detected	Cellulose	2%	Calcite	15%
				Quartz	2%	Particulate Matter	81%
Sample Description: Brown Cove Base Mastic Surgery Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
113	HCH-36A	No	None Detected	Cellulose	3%	Calcite	5%
				Quartz	4%	Particulate Matter	88%
Sample Description: Blue Resilient Floor Covering Surgery Area							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
114	HCH-36B	No	None Detected	Cellulose	2%	Fiberglass	2%
				Calcite	5%	Quartz	3%
Sample Description: Blue Resilient Floor Covering Surgery Area				Particulate Matter	88%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
115	HCH-36C	No	None Detected	Cellulose	2%	Calcite	5%
				Quartz	4%	Particulate Matter	89%
Sample Description: Blue Resilient Floor Covering Surgery Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
116	HCH-37A	No	None Detected	Cellulose	2%	Calcite	45%
				Quartz	3%	Particulate Matter	50%
Sample Description: Gray Resilient Floor Covering Surgery Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
117	HCH-37B	No	None Detected	Cellulose	<1%	Calcite	35%
				Quartz	2%	Particulate Matter	63%
Sample Description: Gray Resilient Floor Covering Surgery Area							

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Dana R Feavell
Analyst
NVLAP Signatory

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
118	HCH-37C	No	None Detected	Cellulose	<1%	Calcite	40%
				Quartz	2%	Particulate Matter	58%
Sample Description: Gray Resilient Floor Covering Surgery Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
119	HCH-38A	No	None Detected	Cellulose	<1%	Calcite	40%
				Quartz	3%	Particulate Matter	57%
Sample Description: White / Gray Resilient Floor Covering Pre-Op Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
120	HCH-38B	No	None Detected	Cellulose	2%	Calcite	35%
				Quartz	2%	Particulate Matter	61%
Sample Description: White / Gray Resilient Floor Covering Pre-Op Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
121	HCH-38C	No	None Detected	Calcite	40%	Quartz	2%
				Particulate Matter	58%		
Sample Description: White / Gray Resilient Floor Covering Pre-Op Area							

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Analyst
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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
122	HCH-39A	Yes 1	None Detected	Calcite	55%	Quartz	3%
				Particulate Matter	42%		
Sample Description: Tan Floor Tile Outpatient Surgery Recovery							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
122	HCH-39A	Yes 2	None Detected	Cellulose	10%	Calcite	30%
				Quartz	2%	Particulate Matter	58%
Sample Description: Black Mastic Outpatient Surgery Recovery							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
123	HCH-39B	Yes 1	Positive	Chrysotile Asbestos	2%	Cellulose	<1%
				Calcite	50%	Mica	1%
				Quartz	2%	Particulate Matter	45%
Sample Description: Tan Floor Tile Work Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
123	HCH-39B	Yes 2	Positive	Chrysotile Asbestos	10%	Cellulose	2%
				Calcite	10%	Quartz	3%
				Particulate Matter	75%		
Sample Description: Black Mastic Work Room							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
125	HCH-40A	Yes 1	None Detected	Cellulose	<1%	Calcite	35%
				Quartz	3%	Particulate Matter	62%
Sample Description: White / Green Pipe Mastic Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
125	HCH-40A	Yes 2	None Detected	Fiberglass	90%	Particulate Matter	10%
Sample Description: Yellow Pipe Insulation Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
126	HCH-40B	No	None Detected	Cellulose	85%	Particulate Matter	15%
Sample Description: Green / White / Silver Pipe Mastic Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
127	HCH-40C	Yes 1	None Detected	Calcite	35%	Quartz	3%
				Particulate Matter	62%		
Sample Description: White / Green Pipe Mastic Main Boiler Room							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
127	HCH-40C	Yes 2	None Detected	Fiberglass	95%	Particulate Matter	5%
Sample Description: Yellow Pipe Insulation Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
128	HCH-40D	No	None Detected	Cellulose	3%	Calcite	40%
				Quartz	2%	Particulate Matter	55%
Sample Description: White / Orange Pipe Mastic Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
129	HCH-40E	No	None Detected	Cellulose	15%	Calcite	30%
				Quartz	2%	Particulate Matter	53%
Sample Description: White / Yellow Pipe Mastic Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
130	HCH-41A	No	None Detected	Cellulose	2%	Mineral Wool	30%
				Calcite	35%	Diatomaceous Earth	3%
Sample Description: Off White Pipe Fitting Main Boiler Room				Quartz	2%	Particulate Matter	28%

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
131	HCH-41B	No	None Detected	Cellulose	<1%	Mineral Wool	25%
				Calcite	35%	Diatomaceous Earth	5%
Sample Description: Off White				Mica	<1%	Quartz	3%
Pipe Fitting				Particulate Matter	32%		
Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
132	HCH-41C	No	None Detected	Cellulose	<1%	Mineral Wool	30%
				Calcite	35%	Diatomaceous Earth	5%
Sample Description: Off White				Quartz	2%	Particulate Matter	28%
Pipe Fitting							
Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
133	HCH-41D	No	None Detected	Cellulose	<1%	Mineral Wool	30%
				Calcite	35%	Diatomaceous Earth	5%
Sample Description: Off White				Quartz	3%	Particulate Matter	27%
Pipe Fitting							
Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
134	HCH-41E	No	None Detected	Cellulose	<1%	Mineral Wool	30%
				Calcite	30%	Diatomaceous Earth	10%
Sample Description: Off White				Quartz	3%	Particulate Matter	27%
Pipe Fitting							
Main Boiler Room							

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Date Sampled: 2/ 6/2012
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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
135	HCH-41F	No	None Detected	Cellulose	<1%	Mineral Wool	30%
				Calcite	35%	Diatomaceous Earth	7%
Sample Description: Off White				Quartz	3%	Particulate Matter	25%
Pipe Fitting							
Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
136	HCH-41G	No	None Detected	Cellulose	<1%	Mineral Wool	25%
				Calcite	35%	Diatomaceous Earth	5%
Sample Description: Off White				Quartz	3%	Particulate Matter	32%
Pipe Fitting							
Main Boiler Room							

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Respectfully Submitted,
EEG, Inc.

Analyst

NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / ER, Radiology, & PT
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo
Date Sampled: 2/ 6/2012
Reported: 2/16/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
137	HCH-42A	Yes 1	None Detected	Cellulose	<1%	Calcite	50%
				Quartz	3%	Particulate Matter	47%
Sample Description: Tan Floor Tile Waiting Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
137	HCH-42A	Yes 2	None Detected	Cellulose	15%	Calcite	20%
				Quartz	2%	Particulate Matter	63%
Sample Description: Black Mastic Waiting Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
138	HCH-42B	Yes 1	None Detected	Calcite	55%	Quartz	3%
				Particulate Matter	42%		
Sample Description: Tan Floor Tile Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
138	HCH-42B	Yes 2	None Detected	Cellulose	10%	Calcite	20%
				Quartz	2%	Particulate Matter	68%
Sample Description: Black Mastic Hallway							

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EEG, Inc
Dana R Jeavell
Analyst
NVLAP Signatory

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Job Number: 00011- B2012-0086
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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
138	HCH-42B	Yes 3	None Detected	Calcite	55%	Quartz	3%
				Particulate Matter	42%		
Sample Description: Pink Floor Tile Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
139	HCH-42C	Yes 1	None Detected	Cellulose	<1%	Calcite	55%
				Quartz	3%	Particulate Matter	42%
Sample Description: Tan Floor Tile Southwest Closet							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
139	HCH-42C	Yes 2	None Detected	Cellulose	15%	Fiberglass	<1%
				Calcite	20%	Quartz	2%
Sample Description: Black Mastic Southwest Closet				Particulate Matter	63%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
140	HCH-43A	No	None Detected	Cellulose	45%	Mineral Wool	20%
				Quartz	2%	Perlite	20%
Sample Description: White / Off White Ceiling Tile Hallway - ICU Area				Particulate Matter	13%		

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Dara R Leavell
Analyst
Mike Cole
NVLAP Signatory

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
141	HCH-43B	No	None Detected	Cellulose	50%	Mineral Wool	15%
				Quartz	2%	Perlite	20%
Sample Description: White / Off White				Particulate Matter	13%		
Ceiling Tile							
Hallway - Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
142	HCH-43C	No	None Detected	Cellulose	50%	Mineral Wool	15%
				Quartz	2%	Perlite	25%
Sample Description: White / Off White				Particulate Matter	8%		
Ceiling Tile							
Hallway - Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
143	HCH-44A	No	None Detected	Cellulose	5%	Synthetic Fiber	2%
				Calcite	25%	Quartz	4%
Sample Description: Yellow				Particulate Matter	64%		
Cove Base Mastic							
Hallway - Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
144	HCH-44B	No	None Detected	Cellulose	2%	Calcite	35%
				Mica	<1%	Quartz	2%
Sample Description: Yellow				Particulate Matter	61%		
Cove Base Mastic							
Hallway - Emergency							

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EEG, Inc
Sara R Jeavell
Analyst
Mike Cole
NVLAP Signatory

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
145	HCH-44C	No	None Detected	Cellulose	7%	Synthetic Fiber	1%
				Calcite	30%	Mica	<1%
Sample Description: Yellow				Quartz	3%	Particulate Matter	59%
Cove Base Mastic							
Hallway - Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
146	HCH-45A	Yes 1	None Detected	Cellulose	10%	Fiberglass	5%
				Quartz	3%	Gypsum Mortar	70%
Sample Description: White / Brown				Particulate Matter	12%		
Drywall							
Mech Room #10							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
146	HCH-45A	Yes 2	None Detected	Cellulose	99%	Particulate Matter	1%
Sample Description: White							
Drywall - Tape							
Mech Room #10							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
146	HCH-45A	Yes 3	None Detected	Calcite	70%	Mica	2%
				Quartz	2%	Perlite	10%
Sample Description: White				Particulate Matter	16%		
Drywall - Mud							
Mech Room #10							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
146	HCH-45A	Yes	None Detected	Calcite	18%	Fiberglass	4%
				Calcite	7%	Mica	<1%
Sample Description: White / Brown				Quartz	3%	Perlite	1%
Composite Analysis				Gypsum Mortar	56%	Particulate Matter	11%
Mech Room #10							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
147	HCH-45B	Yes 1	None Detected	Cellulose	10%	Fiberglass	10%
				Quartz	3%	Gypsum Mortar	70%
Sample Description: White / Brown				Particulate Matter	7%		
Drywall							
Emergency Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
147	HCH-45B	Yes 2	None Detected	Cellulose	<1%	Calcite	70%
				Mica	3%	Quartz	2%
Sample Description: White				Perlite	10%	Particulate Matter	15%
Drywall - Mud							
Emergency Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
147	HCH-45B	Yes	None Detected	Cellulose	9%	Fiberglass	9%
				Calcite	7%	Mica	<1%
Sample Description: White / Brown				Quartz	3%	Perlite	1%
Composite Analysis				Gypsum Mortar	63%	Particulate Matter	8%
Emergency Area							

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Job Number: 00011- B2012-0086
Sampled By: J. Waldo
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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
148	HCH-45C	Yes 1	None Detected	Cellulose	10%	Fiberglass	10%
				Quartz	3%	Gypsum Mortar	70%
Sample Description: White / Brown				Particulate Matter	7%		
Drywall							
ICU Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
148	HCH-45C	Yes 2	None Detected	Calcite	70%	Mica	2%
				Quartz	1%	Perlite	12%
Sample Description: White				Particulate Matter	15%		
Drywall - Mud							
ICU Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
148	HCH-45C	Yes	None Detected	Cellulose	10%	Fiberglass	10%
				Calcite	4%	Mica	<1%
Sample Description: White / Brown				Quartz	3%	Perlite	1%
Composite Analysis				Gypsum Mortar	67%	Particulate Matter	5%
ICU Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
149	HCH-46A	Yes 1	None Detected	Cellulose	<1%	Calcite	50%
				Quartz	3%	Particulate Matter	47%
Sample Description: Tan							
Floor Tile							
Emergency Room							

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Tara R Jeavell
Analyst
Mike Cole
NVLAP Signatory

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
149	HCH-46A	Yes 2	Positive	Chrysotile Asbestos	3%	Cellulose	3%
				Calcite	20%	Quartz	4%
Sample Description: Black Mastic Emergency Room				Particulate Matter	70%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
150	HCH-46B	No	None Detected	Calcite	55%	Quartz	3%
				Particulate Matter	42%		
Sample Description: Tan Floor Tile Emergency Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
151	HCH-46C	No	None Detected	Calcite	50%	Quartz	3%
				Particulate Matter	47%		
Sample Description: Tan Floor Tile Emergency Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
152	HCH-47A	No	None Detected	Cellulose	50%	Fiberglass	15%
				Calcite	5%	Particulate Matter	30%
Sample Description: Black Duct Insulation Mech Room #10							

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EEG, Inc
Sara R Fewell
Analyst
NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
153	HCH-47B	No	None Detected	Cellulose	50%	Fiberglass	10%
				Calcite	7%	Quartz	<1%
Sample Description: Black				Particulate Matter	33%		
Duct Insulation							
Mech Room #10							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
154	HCH-47C	No	None Detected	Cellulose	50%	Fiberglass	10%
				Calcite	5%	Particulate Matter	35%
Sample Description: Black							
Duct Insulation							
Mech Room #10							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
155	HCH-48A	No	None Detected	Cellulose	50%	Mineral Wool	20%
				Quartz	2%	Perlite	20%
Sample Description: White / Off White				Particulate Matter	8%		
Ceiling Tile							
Emergency Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
156	HCH-48B	No	None Detected	Cellulose	50%	Mineral Wool	20%
				Quartz	2%	Perlite	15%
Sample Description: White / Off White				Particulate Matter	13%		
Ceiling Tile							
Emergency Room							

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
157	HCH-48C	No	None Detected	Cellulose	50%	Mineral Wool	20%
				Quartz	2%	Perlite	15%
Sample Description: White / Off White				Particulate Matter	13%		
Ceiling Tile							
Emergency Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
158	HCH-49A	No	None Detected	Cellulose	5%	Fiberglass	2%
				Calcite	20%	Quartz	3%
Sample Description: Black				Particulate Matter	70%		
Table Top							
Lab Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
159	HCH-49B	No	None Detected	Cellulose	3%	Fiberglass	2%
				Calcite	25%	Quartz	3%
Sample Description: Black				Particulate Matter	67%		
Table Top							
Lab Area							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
160	HCH-49C	No	None Detected	Cellulose	5%	Fiberglass	2%
				Calcite	20%	Quartz	2%
Sample Description: Black				Particulate Matter	71%		
Table Top							
Lab Area							

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Respectfully Submitted,
EEG, Inc
Dana R Leavell
Analyst
NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / ER, Radiology, & PT
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo
Date Sampled: 2/ 6/2012
Reported: 2/16/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
161	HCH-50A	No	None Detected	Cellulose	15%	Mica	5%
				Quartz	2%	Gypsum Mortar	50%
Sample Description: Tan Fireproofing Above Drop Ceiling				Particulate Matter	28%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
162	HCH-50B	No	None Detected	Cellulose	20%	Fiberglass	3%
				Mica	5%	Quartz	2%
Sample Description: Tan Fireproofing Above Drop Ceiling				Gypsum Mortar	50%	Particulate Matter	20%

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
163	HCH-50C	No	None Detected	Cellulose	20%	Fiberglass	3%
				Mica	7%	Quartz	2%
Sample Description: Tan Fireproofing Above Drop Ceiling				Gypsum Mortar	55%	Particulate Matter	13%

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
164	HCH-50D	No	None Detected	Cellulose	20%	Fiberglass	2%
				Mica	5%	Quartz	2%
Sample Description: Tan Fireproofing Above Drop Ceiling				Gypsum Mortar	60%	Particulate Matter	11%

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
165	HCH-50E	No	None Detected	Cellulose	20%	Mica	7%
				Quartz	2%	Gypsum Mortar	60%
Sample Description: Tan Fireproofing Above Drop Ceiling				Particulate Matter	11%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
166	HCH-50F	No	None Detected	Cellulose	20%	Fiberglass	2%
				Mica	5%	Quartz	2%
Sample Description: Tan Fireproofing Above Drop Ceiling				Gypsum Mortar	60%	Particulate Matter	11%

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Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / Dialysis Center
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo

Date Sampled: 2/ 6/2012
Reported: 2/17/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
167	HCH-51A	Yes 1	None Detected	Calcite	55%	Quartz	3%
				Particulate Matter	42%		
Sample Description: Blue Foor Tile Records Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
167	HCH-51A	Yes 2	None Detected	Cellulose	2%	Calcite	35%
				Quartz	2%	Particulate Matter	61%
Sample Description: Yellow Mastic Records Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
168	HCH-51B	Yes 1	None Detected	Calcite	55%	Quartz	3%
				Particulate Matter	42%		
Sample Description: Blue Floor Tile Records Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
168	HCH-51B	Yes 2	None Detected	Cellulose	3%	Mineral Wool	1%
				Calcite	35%	Quartz	2%
Sample Description: Yellow Mastic Records Room				Particulate Matter	59%		

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
169	HCH-51C	Yes 1	None Detected	Cellulose	<1%	Calcite	55%
				Mica	<1%	Quartz	3%
Sample Description: Blue Floor Tile Records Room				Particulate Matter	42%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
169	HCH-51C	Yes 2	Positive	Chrysotile Asbestos	3%	Cellulose	<1%
				Calcite	20%	Quartz	2%
Sample Description: Black Mastic Records Room				Particulate Matter	75%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
170	HCH-52A	Yes 1	None Detected	Calcite	55%	Quartz	3%
				Particulate Matter	42%		
Sample Description: White / Blue Floor Tile Bathroom							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
170	HCH-52A	Yes 2	Positive	Chrysotile Asbestos	3%	Cellulose	2%
				Calcite	20%	Quartz	2%
Sample Description: Black / Brown Mastic Bathroom				Particulate Matter	73%		

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EEG, Inc.
Sara R Jewell
Analyst
Mike Cole
NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
171	HCH-52B	No	None Detected	Cellulose	<1%	Calcite	55%
				Mica	<1%	Quartz	3%
Sample Description: White / Blue				Particulate Matter	42%		
Floor Tile							
Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
172	HCH-52C	Yes 1	None Detected	Cellulose	<1%	Calcite	55%
				Quartz	3%	Particulate Matter	42%
Sample Description: White / Blue							
Floor Tile							
Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
172	HCH-52C	Yes 2	None Detected	Cellulose	2%	Calcite	40%
				Quartz	2%	Particulate Matter	56%
Sample Description: Yellow							
Mastic							
Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
173	HCH-53A	No	None Detected	Cellulose	40%	Mineral Wool	25%
				Quartz	2%	Perlite	20%
Sample Description: White / Off White				Particulate Matter	13%		
Ceiling Tile							
Records Room							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
174	HCH-53B	No	None Detected	Cellulose	40%	Mineral Wool	25%
				Quartz	2%	Perlite	25%
Sample Description: White / Off White				Particulate Matter	8%		
Ceiling Tile							
Records Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
175	HCH-53C	No	None Detected	Cellulose	45%	Mineral Wool	20%
				Quartz	2%	Perlite	25%
Sample Description: White / Off White				Particulate Matter	8%		
Ceiling Tile							
Records Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
176	HCH-54A	Yes 1	None Detected	Cellulose	15%	Wollastonite	<1%
				Calcite	25%	Quartz	2%
Sample Description: White				Particulate Matter	58%		
Pipe Mastic							
Mech Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
176	HCH-54A	Yes 2	None Detected	Fiberglass	95%	Particulate Matter	5%
Sample Description: Yellow							
Pipe Insulation							
Mech Room							

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177	HCH-54B	Yes 1	None Detected	Cellulose	20%	Calcite	15%
				Quartz	2%	Particulate Matter	63%
Sample Description: White Pipe Mastic Mech Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
177	HCH-54B	Yes 2	None Detected	Fiberglass	95%	Particulate Matter	5%
Sample Description: Yellow Pipe Insulation Mech Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
178	HCH-54C	Yes 1	None Detected	Cellulose	20%	Calcite	20%
				Quartz	1%	Particulate Matter	59%
Sample Description: White Pipe Mastic Mech Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
178	HCH-54C	Yes 2	None Detected	Cellulose	<1%	Fiberglass	90%
				Quartz	<1%	Particulate Matter	10%
Sample Description: Yellow Pipe Insulation Mech Room							

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Bulk Asbestos Report

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179	HCH-55A	No	None Detected	Cellulose	45%	Mineral Wool	30%
				Quartz	2%	Perlite	15%
Sample Description: White / Off White				Particulate Matter	8%		
Ceiling Tile							
Storage Closet							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
180	HCH-55B	No	None Detected	Cellulose	45%	Mineral Wool	30%
				Quartz	2%	Perlite	15%
Sample Description: White / Off White				Particulate Matter	8%		
Ceiling Tile							
Storage Closet							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
181	HCH-55C	No	None Detected	Cellulose	45%	Mineral Wool	30%
				Quartz	2%	Perlite	10%
Sample Description: White / Off White				Particulate Matter	13%		
Ceiling Tile							
Storage Closet							

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Methodology: EPA-600/R-93/116
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Date Sampled: 2/ 6/2012
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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
182	HCH-56A	Yes 1	None Detected	Cellulose	<1%	Fiberglass	95%
				Particulate Matter	5%		
Sample Description: Yellow Duct Insulation Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
182	HCH-56A	Yes 2	None Detected	Cellulose	90%	Particulate Matter	10%
Sample Description: White Duct Insulation Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
183	HCH-56B	No	None Detected	Cellulose	75%	Calcite	10%
				Particulate Matter	15%		
Sample Description: White Duct Insulation Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
184	HCH-56C	No	None Detected	Cellulose	70%	Fiberglass	10%
				Calcite	5%	Quartz	<1%
Sample Description: White Duct Insulation Main Boiler Room				Particulate Matter	15%		

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
185	HCH-57A	No	None Detected	Cellulose	50%	Mineral Wool	30%
				Quartz	2%	Perlite	10%
Sample Description: White / Off White				Particulate Matter	8%		
Ceiling Tile							
Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
186	HCH-57B	No	None Detected	Cellulose	50%	Mineral Wool	30%
				Quartz	2%	Perlite	10%
Sample Description: White / Off White				Particulate Matter	8%		
Ceiling Tile							
Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
187	HCH-57C	No	None Detected	Cellulose	50%	Mineral Wool	30%
				Quartz	2%	Perlite	10%
Sample Description: White / Off White				Particulate Matter	8%		
Ceiling Tile							
Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
188	HCH-58A	No	Positive	Chrysotile Asbestos	25%	Cellulose	5%
				Calcite	40%	Quartz	2%
Sample Description: Gray / White				Particulate Matter	28%		
Boiler Breeching							
Main Boiler Room							

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Respectfully Submitted,
EEG, Inc

Analyst

NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / Main Boiler Room
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo
Date Sampled: 2/ 6/2012
Reported: 2/17/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
191	HCH-59A	No	Positive	Chrysotile Asbestos	85%	Particulate Matter	15%
Sample Description: Brown Boiler Gasket Main Boiler Room							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
194	HCH-60A	No	None Detected	Cellulose	15%	Fiberglass	5%
				Calcite	50%	Quartz	2%
Sample Description: White Condensate Tank Insulation Main Boiler Room				Particulate Matter	28%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
195	HCH-60B	No	Positive	Chrysotile Asbestos	25%	Mineral Wool	15%
				Calcite	30%	Diatomaceous Earth	5%
Sample Description: White / Off White Condensate Tank Insulation Main Boiler Room				Quartz	2%	Particulate Matter	23%

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
197	HCH-61A	No	Positive	Chrysotile Asbestos	5%	Amosite Asbestos	15%
				Quartz	2%	Gypsum Mortar	50%
Sample Description: White High Pressure Steam Pipe Insualtion Main Boiler Room				Particulate Matter	28%		

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Sara R Jewell
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NVLAP Signatory

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
200	HCH-62A	No	Positive	Chrysotile Asbestos	3%	Amosite Asbestos	10%
				Quartz	2%	Gypsum Mortar	60%
Sample Description: White Hot Water Pipe Insulation Main Boiler Room				Particulate Matter	25%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
203	HCH-63A	No	Positive	Chrysotile Asbestos	3%	Amosite Asbestos	15%
				Quartz	2%	Gypsum Mortar	55%
Sample Description: White Condensate Pipe Insulation Main Boiler Room				Particulate Matter	25%		

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NVLAP Signatory

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
206	HCH-64A	No	None Detected	Cellulose	<1%	Calcite	65%
				Quartz	2%	Particulate Matter	33%
Sample Description: White / Brown Exterior Window Glazing Exterior Windows - 1949 Building							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
207	HCH-64B	No	None Detected	Cellulose	<1%	Calcite	55%
				Quartz	2%	Particulate Matter	43%
Sample Description: Gray Exterior Window Glazing Exterior Windows - 1949 Building							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
208	HCH-64C	No	None Detected	Cellulose	2%	Calcite	60%
				Quartz	2%	Particulate Matter	36%
Sample Description: Tan / Red Exterior Window Glazing Exterior Windows - 1949 Building							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
209	HCH-68A	No	Positive	Chrysotile Asbestos	3%	Cellulose	2%
				Calcite	50%	Quartz	2%
Sample Description: Tan Exterior Window Putty Exterior Windows - 1961 Building				Particulate Matter	43%		

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
212	HCH-69A	No	None Detected	Calcite	15%	Quartz	45%
				Gypsum Mortar	30%	Particulate Matter	10%
Sample Description: Tan Wall Plaster Phone Booth - 1949 Building							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
213	HCH-69B	No	None Detected	Cellulose	<1%	Calcite	10%
				Quartz	45%	Gypsum Mortar	35%
Sample Description: Tan Wall Plaster East Room - 1949 Building				Particulate Matter	10%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
214	HCH-69C	No	None Detected	Calcite	10%	Quartz	50%
				Gypsum Mortar	30%	Particulate Matter	10%
Sample Description: Tan Wall Plaster Mech Room - 1949 Building							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
215	HCH-70A	No	None Detected	Cellulose	25%	Calcite	30%
				Quartz	2%	Particulate Matter	43%
Sample Description: White Duct Tape Mech Room #10 - Radiology Area							

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EEG, Inc
Sara R Leavell
Analyst
Mike Cole
NVLAP Signatory

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Environmental Enterprise Group, Inc.

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
216	HCH-70B	No	None Detected	Cellulose	25%	Mineral Wool	<1%
				Calcite	35%	Quartz	2%
Sample Description: White Duct Tape Mech Room #10 - Radiology Area				Particulate Matter	38%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
217	HCH-70C	No	None Detected	Cellulose	25%	Mineral Wool	<1%
				Calcite	30%	Quartz	2%
Sample Description: White Duct Tape Mech Room #10 - Radiology Area				Particulate Matter	43%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
218	HCH-71	Yes 1	None Detected	Cellulose	<1%	Calcite	10%
				Quartz	2%	Particulate Matter	88%
Sample Description: Black Built up Roofing - Tar 1949 Building							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
218	HCH-71	Yes 2	None Detected	Cellulose	30%	Calcite	5%
				Quartz	<1%	Particulate Matter	65%
Sample Description: Black Built up Roofing 1949 Building							

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
218	HCH-71	Yes 3	None Detected	Synthetic Foam	97%	Particulate Matter	3%
Sample Description: Yellow Built up Roofing - Insulation 1949 Building							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
219	HCH-72	Yes 1	None Detected	Cellulose	<1%	Calcite	10%
				Quartz	4%	Particulate Matter	86%
Sample Description: Black Built up Roofing - Tar 1949-61 Connector							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
219	HCH-72	Yes 2	None Detected	Cellulose	35%	Quartz	<1%
				Particulate Matter	65%		
Sample Description: Black Built up Roofing 1949-61 Connector							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
219	HCH-72	Yes 3	None Detected	Synthetic Foam	97%	Particulate Matter	3%
Sample Description: Yellow Built up Roofing - Insulation 1949-61 Connector							

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Mike Cole
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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
220	HCH-73	Yes 1	None Detected	Cellulose	<1%	Calcite	20%
				Quartz	2%	Particulate Matter	78%
Sample Description: Black Built up Roofing - Tar 1961 Building							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
220	HCH-73	Yes 2	None Detected	Cellulose	60%	Particulate Matter	40%
Sample Description: Black Built up Roofing 1961 Building							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
220	HCH-73	Yes 3	None Detected	Synthetic Foam	98%	Particulate Matter	2%
Sample Description: Yellow Built up Roofing - Insulation 1961 Building							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
221	HCH-74	Yes 1	None Detected	Calcite	15%	Quartz	2%
				Particulate Matter	83%		
Sample Description: Black Built up Roofing - Tar South 1/2 of North-South Wing							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
221	HCH-74	Yes 2	None Detected	Cellulose	60%	Particulate Matter	40%
Sample Description: Black Built up Roofing South 1/2 of North-South Wing							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
221	HCH-74	Yes 3	None Detected	Synthetic Foam	95%	Particulate Matter	5%
Sample Description: Yellow Built up Roofing - Insulation South 1/2 of North-South Wing							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
222	HCH-75	Yes 1	None Detected	Cellulose	<1%	Calcite	15%
				Quartz	4%	Particulate Matter	81%
Sample Description: Black Built up Roofing - Tar North 1/2 of North-South Wing							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
222	HCH-75	Yes 2	None Detected	Cellulose	65%	Particulate Matter	35%
Sample Description: Black Built up Roofing North 1/2 of North-South Wing							

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Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
222	HCH-75	Yes 3	None Detected	Synthetic Foam	97%	Particulate Matter	3%
Sample Description: Yellow Built up Roofing - Insulation North 1/2 of North-South Wing							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
223	HCH-76	Yes 1	None Detected	Fiberglass	25%	Calcite	20%
				Quartz	5%	Particulate Matter	50%
Sample Description: Black Built up Roofing Connector Between Recovery & Surgery							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
223	HCH-76	Yes 2	None Detected	Calcite	15%	Quartz	2%
				Particulate Matter	83%		
Sample Description: Black Built up Roofing - Tar Connector Between Recovery & Surgery							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
224	HCH-77	Yes 1	None Detected	Cellulose	<1%	Calcite	15%
				Quartz	3%	Particulate Matter	82%
Sample Description: Black Built up Roofing - Tar Surgery							

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224	HCH-77	Yes 2	None Detected	Cellulose	65%	Particulate Matter	35%
Sample Description: Black Built up Roofing Surgery							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
224	HCH-77	Yes 3	None Detected	Synthetic Foam	97%	Particulate Matter	3%
Sample Description: Yellow Built up Roofing - Insulation Surgery							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
225	HCH-78	Yes 1	None Detected	Cellulose	<1%	Calcite	25%
				Mica	1%	Quartz	4%
Sample Description: Black Built up Roofing Edge - Tar & Rocks Surgery				Particulate Matter	70%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
225	HCH-78	Yes 2	None Detected	Fiberglass	20%	Calcite	30%
				Quartz	3%	Particulate Matter	47%
Sample Description: Black Built up Roofing Edge Surgery							

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NVLAP®
NVLAP LAB CODE 101587-0

Respectfully Submitted,
EEG, Inc
Lisa R Jewell
Analyst
Mike Cole
NVLAP Signatory

EEG
Environmental
Enterprise Group, Inc.

220 North Knoxville Russellville, Arkansas 72801
Phone (479) 968-6767 Fax (479) 968-1956
www.eegonline.com

Client: Environmental Enterprise Group
Client Project: 11-0111-275/ALL Cons
Methodology: EPA-600/R-93/116
Sample(s) Taken From: Former Howard Co. Hospital / Various Locations
Received: 2/ 9/2012 **Shipped Via:** H.D. by J. Waldo

Job Number: 00011- B2012-0086
Sampled By: J. Waldo
Date Sampled: 2/ 6/2012
Reported: 2/17/2012

Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
225	HCH-78	Yes 3	None Detected	Cellulose	<1%	Calcite	15%
				Quartz	2%	Particulate Matter	83%
Sample Description: Black Built up Roofing Edge - Tar Surgery							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
225	HCH-78	Yes 4	None Detected	Cellulose	20%	Synthetic Fiber	5%
				Calcite	20%	Quartz	2%
Sample Description: Black Built up Roofing Edge Surgery				Particulate Matter	53%		

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
226	HCH-79	Yes 1	None Detected	Calcite	15%	Mica	<1%
				Quartz	2%	Particulate Matter	83%
Sample Description: Black Built up Roofing - Tar Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
226	HCH-79	Yes 2	None Detected	Synthetic Fiber	25%	Calcite	20%
				Quartz	3%	Particulate Matter	52%
Sample Description: Black Built up Roofing Emergency							

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Analyst
NVLAP Signatory

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
226	HCH-79	Yes 3	None Detected	Fiberglass	30%	Calcite	30%
				Quartz	4%	Particulate Matter	36%
Sample Description: Black Built up Roofing Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
226	HCH-79	Yes 4	None Detected	Cellulose	5%	Calcite	15%
				Quartz	2%	Particulate Matter	78%
Sample Description: White Built up Roofing - Insulation Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
227	HCH-80	Yes 1	None Detected	Cellulose	2%	Calcite	15%
				Mica	<1%	Quartz	5%
				Particulate Matter	78%		
Sample Description: Black Built up Roofing Edge - Tar & Rocks Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
227	HCH-80	Yes 2	None Detected	Cellulose	5%	Calcite	20%
				Quartz	2%	Particulate Matter	73%
Sample Description: Black Built up Roofing Edge Emergency							

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EEG, Inc
David R Leavell
Analyst
Mike Cole
NVLAP Signatory

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Environmental Enterprise Group, Inc.

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
227	HCH-80	Yes 3	None Detected	Synthetic Fiber	25%	Calcite	15%
				Quartz	2%	Particulate Matter	58%
Sample Description: Black Built up Roofing Edge Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
227	HCH-80	Yes 4	None Detected	Fiberglass	25%	Calcite	30%
				Quartz	4%	Particulate Matter	41%
Sample Description: Black Built up Roofing Edge Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
227	HCH-80	Yes 5	None Detected	Synthetic Fiber	30%	Calcite	15%
				Quartz	2%	Particulate Matter	53%
Sample Description: Black Built up Roofing Edge Emergency							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
227	HCH-80	Yes 6	None Detected	Cellulose	2%	Fiberglass	1%
				Calcite	30%	Quartz	2%
Sample Description: White Built up Roofing Edge - Insulation Emergency				Particulate Matter	65%		

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Sara R Jearell
Analyst
NVLAP Signatory

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
228	HCH-81	No	None Detected	Fiberglass	15%	Calcite	30%
				Quartz	5%	Particulate Matter	50%

Sample Description: Black
Asphalt Shingle
Emergency Entrance Canopy

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
229	HCH-82	No	None Detected	Cellulose	7%	Fiberglass	3%
				Calcite	30%	Quartz	4%
				Perlite	3%	Particulate Matter	53%

Sample Description: Tan / Gray
Dust on Floor
East Room 1949 Bldg. 1st Floor

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
230	HCH-83	No	None Detected	Cellulose	3%	Fiberglass	1%
				Calcite	5%	Quartz	<1%
				Particulate Matter	91%		

Sample Description: Tan / Gray
Dust on Floor
West Hall 2nd Floor 1949 Bldg.

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
231	HCH-84	No	None Detected	Cellulose	3%	Fiberglass	<1%
				Calcite	5%	Mica	3%
				Quartz	1%	Particulate Matter	88%

Sample Description: Tan / Gray
Dust on Floor
Lobby 1961 Bldg.

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Sara R Leavell
Analyst
NVLAP Signatory

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220 North Knoxville Russellville, Arkansas 72801
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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
232	HCH-85	No	None Detected	Cellulose	5%	Mineral Wool	3%
				Calcite	10%	Quartz	<1%
Sample Description: Tan / Gray				Particulate Matter	82%		
Dust on Floor							
2nd Floor Nurses Station 1961 Bldg.							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
233	HCH-86	No	None Detected	Cellulose	5%	Mineral Wool	1%
				Calcite	5%	Quartz	1%
Sample Description: Tan / Gray				Particulate Matter	88%		
Dust on Floor							
Nort-South Wing Room 271							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
234	HCH-87	No	None Detected	Cellulose	5%	Mineral Wool	1%
				Calcite	10%	Quartz	2%
Sample Description: Tan / Gray				Perlite	5%	Particulate Matter	77%
Dust on Floor							
Surgical Hallway							

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
235	HCH-88	No	None Detected	Cellulose	15%	Fiberglass	1%
				Mineral Wool	5%	Calcite	10%
Sample Description: Tan / Gray				Mica	1%	Quartz	3%
Dust on Floor				Perlite	5%	Particulate Matter	60%
Main Boiler Room							

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Bulk Asbestos Report

Sample #	Client Sample ID:	Layered	Analysis	This material contains approximately			
236	HCH-89	No	None Detected	Cellulose	15%	Mineral Wool	2%
				Calcite	10%	Mica	<1%
Sample Description: Tan / Gray				Quartz	2%	Particulate Matter	71%
Dust on Floor							
Emergency Room Hallway							

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NVLAP Signatory

Asbestos Background Information

ASBESTOS

Background Information

The Asbestos Issue

Asbestos fibers can cause serious health problems. If inhaled, they can cause diseases that disrupt the normal functioning of the lungs. Three specific diseases-asbestosis (a fibrous scarring of the lungs), lung cancer, and mesothelioma (a cancer of the lining of the chest or abdominal cavity) have been linked to asbestos exposure. These diseases do not develop immediately after inhalation of asbestos fibers; it may be 20 years or more before symptoms appear.

In general, as with cigarette smoking and the inhalation of tobacco smoke, the more asbestos fibers a person inhales, the greater the risk of developing an asbestos-related disease. Most of the cases of severe health problems resulting from asbestos exposure have been experienced by workers who held jobs in industries such as shipbuilding, mining, milling, and fabricating, where they were exposed to very high levels of asbestos in the air, without benefit of the worker protections now afforded by law. Many of these same workers were also smokers. These employees worked directly with asbestos materials on a regular basis and, generally, for long periods of time as part of their jobs. Additionally, there is an increasing concern for the health and safety of construction, renovation, and building maintenance personnel, because of possible periodic exposure to elevated levels of asbestos fibers while performing their jobs.

Whenever we discuss the risk posed by asbestos, we must keep in mind that asbestos fibers can be found nearly everywhere in our environment (usually at very low levels). There is, at this time, insufficient information concerning health effects resulting from low-level asbestos exposure, either from exposures in buildings or from our environment. This makes it difficult to accurately assess the magnitude of cancer risk for building occupants, tenants, and building maintenance and custodial workers. Although in general the risk is likely to be negligible for occupants, health concerns remain, particularly for the building□s custodial and maintenance workers. Their jobs are likely to bring them into close proximity to ACM, and may sometimes require them to disturb the ACM in the performance of maintenance activities. For these workers in particular, a complete and effective O&M program can greatly reduce asbestos exposure. This kind of O&M program can also minimize asbestos exposures for other building occupants as well.

What is Asbestos?

The term "asbestos" describes six naturally occurring fibrous minerals found in certain types of rock formations. Of that general group, the minerals chrysotile, amosite, and crocidolite have been most commonly used in building products. When mined and processed, asbestos is typically separated into very thin fibers. When these fibers are present in the air, they are normally invisible to the naked eye. Asbestos fibers are commonly mixed during processing with a material that binds them together so that they can be used in many different products. Because these fibers are so small and light, they may remain in the air for many hours if they are released from ACM in a building. When fibers are released into the air, people in the building may inhale them.

Asbestos became a popular commercial product because it is strong, won□t burn, resists corrosion, and insulates well. In the United States, its commercial use began in the early 1900s and peaked in the period from World War II into the 1970s. Under the Clean Air Act of 1970 the EPA has been regulating many asbestos-containing materials, which by EPA definition, are materials with more than one percent asbestos. The Occupational Safety and Health Administration (OSHA) asbestos construction standard in Section K, "Communication of hazards to employees," specifies labeling many materials containing asbestos. In the mid-1970s several major kinds of asbestos materials, such as spray-applied insulation, fireproofing, and acoustical surfacing material, were banned by EPA because of growing concern about health effects, particularly cancer, associated with exposures to such materials.

Where is Asbestos Likely to be Found in Buildings?

In February 1988, the EPA released a report titled *EPA Study of Asbestos-Containing Materials in Public Buildings: A Report to Congress*. EPA found that "friable" (easily crumbled) ACM can be found in an estimated 700,000 public and commercial buildings. About 500,000 of those buildings are believed to contain at least some damaged asbestos, and some areas of significantly damaged ACM can be found in over half of them.

According to the EPA study, significantly damaged ACM is found primarily in building areas not generally accessible to the public, such as boiler and machinery rooms where asbestos exposures generally would be limited to service and maintenance workers. Friable ACM, if present in air plenums, can lead to distribution of the material throughout the building, thereby possibly exposing building occupants. ACM can also be found in other building locations.

Asbestos in buildings has been commonly used for thermal insulation, fireproofing, and in various building materials, such as floor coverings and ceiling tile, cement pipe and sheeting, granular and corrugated paper pipe wrap, and acoustical and decorative treatment for ceilings and walls. Typically, it is found in pipe and boiler insulation and in spray-applied uses such as fireproofing or sound-deadening applications.

The amount of asbestos in these products varies widely (from approximately 1 percent to nearly 100 percent). The precise amount of asbestos in a product cannot always be accurately determined from labels or by asking the manufacturer. Nor can positive identification of asbestos be ascertained merely by visual examination. Instead, a qualified laboratory must analyze representative samples of the suspect material.

When is Asbestos a Problem?

Intact and undisturbed asbestos materials do not pose a health risk. The mere presence of asbestos in a building does not mean that the health of building occupants is endangered. ACM that is in good condition, and is not somehow damaged or disturbed, is not likely to release asbestos fibers into the air. When ACM is properly managed, release of asbestos fibers into the air is prevented or minimized, and the risk of asbestos-related disease can be reduced to a negligible level. However, asbestos materials can become hazardous when, due to damage, disturbance, or deterioration over time, they release fibers into building air. Under these conditions, when ACM is damaged or disturbed-for example, by maintenance repairs conducted without proper controls, elevated airborne asbestos concentrations can create a potential hazard for workers and other building occupants.

Decision Logic Flow Chart for Hazard Assessments

DECISION LOGIC FLOWCHART
for Hazard Assessments

Damage Codes	Reasons for Damage	Potential for Disturbance	Response Action	Priority Level Interpretation
Significantly Damaged Surfacing ACM	Poor Condition and Any Other Reasons	Moderate / High	Remove (Always)	High
Damaged or Significantly Damaged Miscellaneous ACM	Good Condition	Slight	Repair and Operations and Maintenance (O&M) Plan (Rarely Enclose or Encapsulate)	Low
	Fair Condition and Any Other Reasons	Moderate	Repair and O&M or Remove (Rarely Enclose or Encapsulate)	Moderate
	Poor Condition and Any Other Reasons	High	Remove (Always)	High
ACM with Potential for Damage	Good Condition	None / Slight	O&M	Low
ACM with Potential for Significant Damage	Good Condition	Moderate / High	O&M	Low
Remaining ACM	Constant Air Flow	High	Enclosure	High
	Contaminated Soil	High	Isolate	High
	Good Condition	High	Gross Removal	High

Laboratory QA/QC Procedures for Bulk Analysis

LABORATORY QA/QC PROCEDURES

for Bulk Analysis

Quality Control Checks

Quality control checks are performed on a routine basis to verify the analysis and ensure the quality of the data. The Bulk Quality Control Program represents at least ten percent of all samples analyzed.

Quality control checks include the following:

METHOD 1	Repeat analysis of the same sample preparation by a different analyst.
METHOD 2	Re-preparation of the same sample and reanalysis by the same analyst.
METHOD 3	Re-preparation of the same sample and reanalysis by a different analyst.

Selection of Samples for Reanalysis

There are several ways to select samples for Quality Control reanalysis. The following is a list of resample procedures:

1. Samples received by the client in amounts less than 25 samples or small projects are reserved for a blind reanalysis. Ten percent of these samples are reanalyzed. This reanalysis may include sample Method 2 or 3 depending on who did the original analysis and who is doing the Quality Control Analysis. These samples are selected by the Laboratory Manager or Analyst in a semi-random fashion by selecting every tenth sample in the batch to be reanalyzed.
2. Special projects of samples in amounts greater than 25 samples will be analyzed by repeat analysis (Method 1) and/or reanalysis of the same sample by re-preparation (Method 2).
   a. Repeat analysis of the same sample preparation by a different analyst (Method 1) is conducted at the completion of the analysis of the set. Reanalysis of these samples is selected by choosing every tenth slide (which is labeled by a sample number) or choosing a sample that is suspected of containing asbestos but no asbestos was detected. This quality control check is recorded on the original bulk analysis form by dating and initialing the original form in the proper location.

      This procedure encourages interaction between analyst; and any discrepancies are resolved immediately. A copy of the bulk analysis form in which the control check was made is filed in the Quality Control book in the lab.

   b. Re-preparation and reanalysis by the same analyst (Method 2). Samples are selected by the original analyst after the analysis is completed from a sample group or project. The original analyst does not have the results of the original analysis. Samples may be selected by choosing every tenth sample in that group or project. The results are reported on a separate bulk analysis form and compared to the original analysis by the Laboratory Manager and tabulated on the QA Sample Analysis log. Any discrepancies are noted and resolved.

      Samples that are in the one percent range or samples that are in question by the original analyst are reanalyzed by a second analyst without the knowledge of the first results (Method 3) or by the original analyst (Method 2). The second results are compared to the original results and any discrepancies are resolved.

      This Quality Control check is noted on the original bulk analysis form. This method is conducted at the request of the original analyst. If the two analyses are still not completely resolved, the sample is sent to another lab for comparison or sent to the McCrone Research Institute for additional instruction and identification.

Traceable Standards

1. NIST traceable standards are analyzed during the NVLAP testing rounds. Each analyst individually analyzes the samples. Results of the sample analysis is tabulated on the Monthly QA Bulk Summary Sheet and filed in the laboratory QA files.
2. NIST Standard Reference Material

   1866 and 1867A are available in the laboratory as a calibration and training tool.
3. Generated Standard

   Generated Standards are analyzed periodically by each analyst as a means to calibrate the analysts. These standards are preparations of material with known volume/weight relationship.

Recording QC Results

The Quality Control results are tabulated and reviewed by the Laboratory Manager and filed in the laboratory files and analyst files. Discrepancies are noted and corrective measures are taken as soon as possible. Any corrective measures that are taken are placed in the lab files and analyst files.

Discrepancies found in the ten percent reanalysis which involve false negatives or false positive will be corrected, and any similar sample in the sample group or project will also be reanalyzed as part of the Quality Control.

If any corrections are needed for the clients report, they shall be made immediately. If the report has been sent to the client, a phone call shall be made pertaining to the change and a corrected report shall be sent to replace the original. All analytical correction or change to a report is noted on the report by the comment □ Corrected Report□ in the footnote section of the report.

Contamination Control

To assure a contamination free environment, the following procedures are strictly adhered to:

1. The hood is turned on before analysis begins.
2. Only one sample is placed in the working area of the hood at a time.
3. After each analysis, all tools and surfaces are cleaned with a damp wipe.
4. Slides, cover slips, and mounting medium kept outside the hood are to prevent contamination of airborne fibers in the hood.
5. After each day□ s analysis, the lab bench and working surfaces are cleaned with a damp wipe.
6. Contamination is checked each month or as needed by analyzing blanks.

Inspector Certificates

State of Arkansas
Department of
Environmental Quality

012679 JAMES WALDO

having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Regulation 21 and is hereby certified in the State of Arkansas in the discipline(s) of Asbestos

Air Monitor 1/31/2013

Contractor/Supervisor 1/31/2013

Inspector 1/31/2013

Issue Date:01-Feb-2012

Teresa Marks

ADEQ Director

State of Arkansas
Department of
Environmental Quality

011927 ROBERT E. SMITH

having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Regulation 21 and is hereby certified in the State of Arkansas in the discipline(s) of Asbestos

Air Monitor 1/31/2013

Project Designer 1/31/2013

Contractor/Supervisor 1/31/2013

Inspector 1/31/2013

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Teresa Marks

ADEQ Director

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

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Russellville, AR

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BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2011-07-01 through 2012-06-30

Effective dates

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

Appendix B

Lead Based Paint Inspection Report

LEAD BASED PAINT
INSPECTION REPORT

for

Former Howard County Hospital
800 West Leslie Street
Nashville, Arkansas 71852

EEG Project Number: 11-0117-085

Report Prepared for:

ALL Consulting
Mr. Charles B. McComas
1718 South Cheyenne Avenue
Tulsa, Oklahoma 74119

Report Issuance Date:
March 9, 2012

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1.0 EXECUTIVE SUMMARY

ALL Consulting retained the services of Environmental Enterprise Group, Inc. (EEG), to conduct a lead based paint inspection and prepare a survey report on the Former Howard County Hospital located at 800 West Leslie Street in Nashville, Arkansas. The inspection was conducted on February 6 – 9, 2012 by Mr. Mike Cole, Certified Inspector #000318 and Certified Risk Inspector #000319, Arkansas Department of Health (ADH). The lead inspection report was performed in general conformance with the scope of work and limitations set forth in EEG's proposal #P11-260.

While the facility is not currently used as a residential property, lead inspections generally follow guidance similar to that of target housing. This inspection was conducted generally following the U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead Based Paint Hazards in Housing with the 1997 revisions and all State and Local regulations except that a different visible color shall, by itself, result in a separate testing combination for a room equivalent. All requirements for the Niton XRF usage contained in the Performance Characteristics Sheet for the specific XRF were followed.

The inspection may also be used as initial guidance as to applicable Occupational Safety and Health Administration (OSHA) guidance for renovation, restoration or demolition activities. An example would be that if all readings taken from a specific area are zero or non-detect by XRF inspection, that specific area may be considered unlikely to have a lead exposure issue relating to construction, demolition or other work activities. The current OSHA Construction Standard requires that an exposure assessment be performed to determine the concentration of lead in air during work activities impacting lead-containing substrates. Additionally the current United States Environmental Protection Agency (USEPA) regulations under the Restoration, Renovation and Painting Rule requires occupant notification, contractor certification and lead safe work practices be followed in areas where lead concentrations are above 1.0 milligram per square centimeter or 0.5 percent by weight for certain properties.

The inspection approach identified painted surfaces in the rooms as components that can generally be defined as architectural features of the building. Components consist of walls, ceilings, floors, doors, doorjambs, window sashes, windowsills, stair treads, etc. These are the visible parts of the building. Components that are painted, stained, shellacked, varnished, coated, or covered with wallpaper are tested. Each component may be represented many times in a single room. For example, there are generally baseboards on all walls in a room. It is not necessary to test each of these baseboards in the room as long as they appear to have the same paint history. A surface-by-surface approach was conducted using a Niton X-Ray Fluorescence Spectrometer (XRF) model XLp 300, serial number 25752.

Costs and Abatement options are included in Section 6.0. Based on a complete demolition of the subject site, whole component lead abatement options were utilized for cost estimating purposes. Abatement activities include lead hazard evaluation, planning, cleaning, clearance, and waste disposal. Costs are estimated using whole component removal options with certified abatement personnel. The total estimated abatement cost is ESTIMATED to be $32,100.00. The report is not intended to be, nor should it be, used solely as a bidding document for the purposes of lead abatement.

The **Former Howard County Hospital** was built in 1949 with additions in 1961, 1972, and 1987, contains approximately 54,340 square feet and is constructed of a metal frame with brick exterior walls and a built-up tar roof. The interior walls are plaster, drywall, and block. The building sits on a concrete foundation. The building utilizes gas and electric HVAC systems. All areas are listed in data sheets included in **Appendix A** and on the Floor Plan included in **Appendix G**.

A surface-by-surface style investigation for lead based paint was conducted on February 6th through 9th, 2012 by Mr. Mike Cole of EEG. Testing was performed using a Niton X-Ray Fluorescence Spectrometer (XRF) model XLp 300, serial number 25752. Additionally, paint chip samples were collected and quantified by a laboratory for comparison to the XRF field data. The inspection indicated that lead based paint is present on the following substrates / areas: Please note that some areas are not considered lead based paint but, are lead lined walls, doors and door frames where noted.

Interior:

XRF Reading #	XRF Reading in mg/cm²	Material Description	Quantity
599	10.1	1972/1987 Level 2 X-Ray #2 Brown Wood Door (Lead Lined Doors)	3 @ 3' x 7'
600	10.1		
601	10.1		
620	10.1	1972/1987 Level 2 X-Ray #1 Brown Wood Door (Lead Lined Doors)	3 @ 3' x 7'
621	10.1		
633	10.1	1972/1987 Level 2 X-Ray #3 Off-White Metal Door Frame (Lead Lined Door Frames)	1 @ 17 Lin.Ft.
634	8.5		
142	2.1	1972/1987 Level 2 Mech Room Orange Metal Boiler	2 Each
143	1.6		
144	2.0		

Paint chip samples were collected in addition to field XRF measurements. The target ratio expected for this specific item was ten percent (10%) paint chip samples to XRF readings. At times collecting the 10% target ratio is not possible due to conditions where paint may not exist (such as behind wallpaper) or is deemed impractical by the inspector (such as having 100 identical rooms). For this project: 1,681 XRF paint readings were made, while 103 paint chip samples were collected. The result is a 6.1 % ratio. The following paint chip samples were collected and analyzed by a laboratory:

SAMPLE I.D.	SUBSTRATE (C, B, W, P, D, M)	COLOR	COMPONENT	SAMPLE LOCATION	XRF READING	ANALYTICAL RESULTS mg/cm²
47	D	White/Pink	Wall	1972/1987 Level 2 CT Scan	3.6	<0.001
48	D	White/Pink	Wall	1972/1987 Level 2 CT Scan Operator's Room	3.0	<0.001
53	D	Pink	Wall	1972/1987 Level 2 X-Ray #2	4.2	<0.001
54	M	Off-White	Door Frame	1972/1987 Level 2 X-Ray #2	5.5	0.001
56	M	Off-White	Door Frame	1972/1987 Level 2 X-Ray #1	14.9	<0.001
57	D	Pink	Wall	1972/1987 Level 2 X-Ray #1	5.5	0.001
58	D	White/Pink	Wall	1972/1987 Level 2 X-Ray #3	4.8	<0.001
59	M	Off-White	Door Frame	1972/1987 Level 2 X-Ray #3	22.2	0.005
72	M	Orange	Boiler	1972/1987 Level 2 Mechanical Boiler Room	1.9	0.872

- Lead concentrations derived from laboratory analysis were compared to test data measured by the XRF. Based on this comparison, all negative or less than one milligram per square centimeter compared with one another. For positive or equal to or greater than one milligram per square centimeter the following point needs to be addressed:
  - The main boilers from the newest edition were 0.872 mg/cm^2 by paint chip analysis and on average 1.9 mg/cm^2 by XRF analysis. This discrepancy could possibly be due to less than twenty five square centimeter being collected or by not completely scraping the surface to the metal. It is considered to be lead-based paint.

- The following components were identified through at-depth readings by XRF. The XRF results were validated visually by observing the lead sheathing present for both walls and doors. It is believed that door frames are lead-contaminated from lead-containing doors or possibly contain lead within the frame. This is noted by lead concentrations that occur on door frame friction surfaces but was not verified by dust collection techniques.

Average Deep XRF Reading	Area	Description	Quantity
7.8	1972/1987 Edition Level 2 CT Scan	Lead-Lined Sheetrock Walls	325 Sq.Ft.
9.0	1972/1987 Edition Level 2 CT Scan Operator's Room	Lead-Lined Sheetrock Walls	200 Sq.Ft.
8.4	1972/1987 Edition Level 2 X-Ray #2	Lead-Lined Sheetrock Walls	500 Sq.Ft.
54.0		Lead-Lined Doors	3 @ 3' x 7'
11.0		Lead-Lined Metal Door Frames	3 @ 17 Lin.Ft.
8.2	1972/1987 Edition Level 2 X-Ray #1	Lead-Lined Sheetrock Walls	575 Sq.Ft.
45.0		Lead-Lined Doors	3 @ 3' x 7'
26.0		Lead-Lined Metal Door Frames	3 @ 17 Lin.Ft.
9.4	1972/1987 Edition Level 2 X-Ray #3	Lead-Lined Sheetrock Walls	335 Sq.Ft.
9.0		Lead-Lined Door	1 @ 3' x 7'
38.0		Lead-Lined Metal Door Frame	1 @ 17 Lin.Ft.
9.5		Lead-Lined Metal Window Frame	1 @ 14 Lin.Ft.

Exterior:

No lead based painted substrates were identified. Please note that structural steel components were not accessible for inspection.

Materials that are not considered lead based paint by USEPA definition but that may contain lead in smaller quantities, could pose potential risks during certain job tasks such as scraping, grinding or sanding. OSHA defines lead containing materials as having ANY measurable concentration of lead. Based on a review of data from the XRF measurements care should be taken, such as utilizing lead safe work practices, while working with the following materials:

Several surfaces were consistently above detection levels to pose potential risks while performing job tasks such as scraping, grinding or sanding.

Interior:

XRF Reading #	XRF Reading in mg/cm²	Material Description
472	0.50	1961 Level 2 Room 241 Tan/Brown Concrete Wall
589	0.40	1961 Level 2 Room 251 White Plaster Ceiling
590	0.50	1961 Level 2 Room 251 White Plaster Ceiling
591	0.50	1961 Level 2 Room 251 White Plaster Ceiling
72	0.40	1949 Level 1 Human Resources Gray Metal Door Frame
93	0.30	1972/1987 Level 2 Operating Room Yellow Metal Cabinetry
94	0.40	1972/1987 Level 2 Operating Room Yellow Metal Cabinetry
95	0.60	1972/1987 Level 2 Operating Room Yellow Metal Cabinetry
164	0.50	1972/1987 Level 2 North Stairwell Yellow Metal Hand Rail
165	0.30	1972/1987 Level 2 North Stairwell Yellow Metal Hand Rail
166	0.40	1972/1987 Level 2 North Stairwell Yellow Metal Hand Rail

Exterior:

XRF Reading #	XRF Reading in mg/cm²	Material Description
355	0.40	1961 Edition Exterior West Brown Metal Window Lintel
364	0.30	1961 Edition Exterior West Brown Metal I Beam @ Exterior Stairs
366	0.40	1941/1961 Edition Exterior Connection Pink Metal Window Frame
367	0.40	1941/1961 Edition Exterior Connection Pink Metal Window Frame
368	0.40	1941/1961 Edition Exterior Connection Pink Metal Window Frame
378	0.40	1949 Edition Exterior East Pink Metal Window Lintel
379	0.30	1949 Edition Exterior East Pink Metal Window Lintel
383	0.30	1949 Edition Exterior East Pink Metal Window Frame
411	0.50	1972/1987 Edition Exterior East Brown Metal Northeast Header
412	0.70	1972/1987 Edition Exterior East Brown Metal Northeast Header
413	0.80	1972/1987 Edition Exterior East Brown Metal Northeast Header
429	0.40	1972/1987 Edition Exterior North Gray Metal Exposed Header
430	0.40	1972/1987 Edition Exterior North Gray Metal Exposed Header
431	0.30	1972/1987 Edition Exterior North Gray Metal Exposed Header

A complete listing of sample results is included in **Appendix A**.

2.0 NARRATIVE ON DATA EVALUATION

Data collection for this inspection was performed to represent conditions in areas similar to current visible conditions. Where possible, samples or measurements were collected from locations representative of areas identified. Generally speaking, results obtained from sample collection sites are influenced by the exact location, prevalent conditions, and manner in which they are collected. Regulatory standards are referenced when applicable to the measurements or sample results.

This Lead Based Paint Investigation has been developed to provide the client with information regarding potential lead hazards relating to the building or building component. It is necessarily limited to the conditions observed, the information available at the time of the work, and the scope of the investigation. Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the lead based paint inspection or that were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. EEG does not accept responsibility for changes in the state of the art methodology. EEG believes that the findings and conclusions provided in this report are reasonable. However, no other warranties are implied or expressed.

Positive Lead Based Paint identified by XRF readings are documented by multiple readings of greater than 1.0 milligram per square centimeter (1.0 mg/cm^2). Negative Lead Based Paint readings are documented by multiple readings of less than 1.0 milligram per square centimeter (1.0 mg/cm^2). Surfaces that are consistently below detection levels are considered to have a minimal hazard for work activities relating to lead exposure. Surfaces that are consistently above detection levels but are not at Lead Based Paint levels, may pose potential risks while performing job tasks such as scraping, grinding or sanding.

The building owner is required by federal law to disclose information about this property as it relates to Lead Based Paint. Please see the attached disclosure statement in **Appendix I**.

3.0 GUIDANCE

3.1 Housing and Urban Development

The U.S. Department of Housing and Urban Development (HUD) is a federal agency, which establishes standard methods for lead based paint inspections. The HUD Final *Guidelines* were developed for the evaluation and control of lead based paint hazards in housing. The State of Arkansas has adopted lead based paint hazard regulations to address professional certification standards, lead paint activity standards, enforcement and inspections. The "Residential Lead Based Paint Hazard Reduction Act of 1992" (known as Title X) has various portions which affect areas of building maintenance and worker safety. An immediate requirement of Title X is to subject federal facilities to compliance with state and local requirements governing lead hazard reduction. EEG utilized X-Ray Fluorescence (XRF) methodology as outlined in 24 CFR Part 35 (HUD). All residential property seeking federal funding for remodeling or rehabilitation must have a HUD style lead inspection prior to work activities.

3.2 United States Environmental Protection Agency

Recent federal regulations have become law concerning lead based paint. In April, 2008 the United States Protection Agency (USEPA) adopted 40 CFR Part 745 the Lead; Renovation, Repair and Painting (RRP) Program; Lead Hazard Information Pamphlet; Notice of Availability; Final Rule. Unless painted surfaces in specified target housing and work places are found to be free of lead based paint, work activities impacting these painted surfaces will be governed by this regulation. The RRP Rule includes provisions for occupant notification of potential hazards prior to work activities, contractor certification requirements and post work evaluations with additional occupant notifications. RRP regulations cover smaller jobs that would be considered routine maintenance, it is not intended as a replacement protocol for lead abatement activities.

3.3 Occupational Safety and Health Administration

In order to ensure a safe and healthy work environment, Federal, state and local regulations require lead based paint be identified and controlled. One function of this inspection was to establish the location of lead based paint throughout the building and provide the basis for an Operations and Maintenance (O&M) Plan with respect to Lead Based Paint. Current Occupational Safety and Health Administration (OSHA) guidance under the General Duty Clause and Lead in Construction Standard 29 CFR 1926 and OSHA requires that an exposure assessment be performed to determine the concentration of lead in air during work activities impacting lead-containing substrates. This assessment should be in the form of industrial hygiene air monitoring on personnel impacting the lead-containing materials. The personnel impacting these materials must be trained in accordance with the OSHA regulations and must wear respirators with appropriate filters during the assessment. The result of the air monitoring data from the eight-hour shift must then be compared to the OSHA Lead Action Level (AL) and Permissible Exposure Limit (PEL). If the result of the lead in air sampling is below the OSHA AL, the use of respirators may be discontinued as long as the method of impacting the lead-containing materials remains the same. The air monitoring data must be kept on site for the duration of the work that impacts these materials.

4.0 INSPECTION METHODOLOGY

4.1 Definition of Room Equivalent

A **room equivalent** is an identifiable part of a building, such as a room, the exterior sides, or an exterior area. Hallways, stairways, and exterior areas are all examples of room equivalents.

4.2 Definition of Components

Each **room equivalent** is made up of components. Components may be located inside or outside a building. For example, components in a room are the ceiling, floor, walls, a door and its casing, the window sash, and window casings.

4.3 Definition of Substrate

The **substrate** is the material underneath the paint. Many substrates exist; however, the HUD Final Guidelines recommend classifying substrates into one of six substrate types: brick, concrete, drywall, metal, plaster, and wood. These substrate types are intended to include a broad range of materials. If the true substrate is not one of the six types, the substrate that most closely matches the true substrate is selected. For substrates on top of substrates, such as plaster on concrete, the substrate directly beneath the painted surface is used.

4.4 Delineation of a Testing Combination

A **testing combination** is characterized by the room equivalent, component, substrate, and visible color of paint. The "test location" is a specific area on a testing combination where the XRF (x-ray fluorescence) instrument tests for lead based paint.

4.5 Sampling Strategies

The **painted surfaces** in the rooms are identified as components that can generally be defined as architectural features of the building. Components consist of walls, ceilings, floors, doors, doorjambs, window sashes, windowsills, stair treads, etc. These are the visible parts of the building. Components that are painted, stained, shellacked, varnished, coated, or covered with wallpaper are tested. Each component may be represented many times in a single room. For example, there are generally baseboards on all walls in a room. It is not necessary to test each of these baseboards in the room as long as they appear to have the same paint history. A surface-by-surface approach is conducted using a Niton X-Ray Fluorescence Spectrometer (XRF) model XLp 300, serial number 25752.

The Sampling Strategy adheres to the EPA Performance Characteristic Sheet for the particular XRF instrument used, as well as the manufacturer's modifications and recommendations. The XRF used for detection of lead based paint in the building is the Niton X-Ray Fluorescence Spectrometer (XRF) model XLp 300, serial number 25752. It was manufactured by Thermo-NITON Analyzers, LLC, 900 Middlesex Turnpike, Building 8, Billerica, Massachusetts 01821. Each different testing combination for all room equivalents are tested by XRF.

According to the EPA/HUD Guidelines, a lead reading by XRF of 1.0 mg/cm^2 or above is considered positive for the presence of lead based paint. Below 1.0 mg/cm^2 is considered negative.

If there are any inconclusive readings (1.0 mg/cm^2), a paint-chip sample will be collected for laboratory analysis. Laboratory analysis will only be performed by an EPA NLLAP (National Lead Laboratory Accreditation Program) or AIHA ELLAP (Environmental Lead Laboratory Accreditation Program) approved laboratory. If possible, the paint-chip sample is taken from a four square inch area that is representative of the paint on the testing combination and that is located in an obscure area. Results are given in percent lead by weight and as mg/cm^2 (if possible). According to the EPA/HUD Guidelines, a result of 0.5 percent or greater is considered positive. All other results are negative. There is no inconclusive range for laboratory measurements / results.

4.6 Quality Control Procedures for XRF

Data validity is key when reviewing or completing environmental investigations. To satisfy both the client and EEG that the results obtained are accurate to the best of our abilities, two types of quality control applications were utilized while performing work with the XRF instrumentation.

A National Institute of Standards and Testing (NIST) Traceable Standard was used at the prior to test readings and at the conclusion of work to document the accuracy of the XRF. The inspection will not be considered valid should either the initial reading or post reading on the control sample be found outside the manufactures recommended tolerance value.

XRF data sheets are located in **Appendix A**. The shot numbers represent sequential numbers per work shift. If the inspector re-shoots a room or an area to better understand or evaluate the specific data these shots generally are not listed in the report so there is not unwanted or confusing duplicity. This may be indicated by "missing" numbers within the XRF data sheets section.

5.0 FINDINGS

5.1 Interior Lead Based Paint by XRF Inspection

The following tested painted components were found to contain lead in a concentration greater than the Federal/State threshold of 1.0 mg/cm^2 of surface as measured by a XRF:

XRF Reading #	XRF Reading in mg/cm²	Material Description	Quantity
599	10.1	1972/1987 Level 2 X-Ray #2 Brown Wood Door	3 @ 3' x 7'
600	10.1		
601	10.1		
620	10.1	1972/1987 Level 2 X-Ray #1 Brown Wood Door	3 @ 3' x 7'
621	10.1		
633	10.1	1972/1987 Level 2 X-Ray #3 Off-White Metal Door Frame	1 @ 17 Lin.Ft.
634	8.5		
142	2.1	1972/1987 Level 2 Mech Room Orange Metal Boiler	2 Each
143	1.6		
144	2.0		

5.2 Exterior Lead Based Paint by XRF Inspection

No lead based painted substrates were identified. Please note that structural steel components were not accessible for inspection.

5.3 Surfaces that are above detection levels for Lead

Surfaces that are consistently above detection levels but are not at Lead Based Paint levels, may pose potential risks while performing job tasks such as scraping, grinding or sanding.

Interior:

XRF Reading #	XRF Reading in mg/cm²	Material Description
472	0.50	1961 Level 2 Room 241 Tan/Brown Concrete Wall
589	0.40	1961 Level 2 Room 251 White Plaster Ceiling
590	0.50	1961 Level 2 Room 251 White Plaster Ceiling
591	0.50	1961 Level 2 Room 251 White Plaster Ceiling
72	0.40	1949 Level 1 Human Resources Gray Metal Door Frame
93	0.30	1972/1987 Level 2 Operating Room Yellow Metal Cabinetry
94	0.40	1972/1987 Level 2 Operating Room Yellow Metal Cabinetry
95	0.60	1972/1987 Level 2 Operating Room Yellow Metal Cabinetry
164	0.50	1972/1987 Level 2 North Stairwell Yellow Metal Hand Rail
165	0.30	1972/1987 Level 2 North Stairwell Yellow Metal Hand Rail
166	0.40	1972/1987 Level 2 North Stairwell Yellow Metal Hand Rail

Exterior:

XRF Reading #	XRF Reading in mg/cm²	Material Description
355	0.40	1961 Edition Exterior West Brown Metal Window Lintel
364	0.30	1961 Edition Exterior West Brown Metal I Beam @ Exterior Stairs
366	0.40	1941/1961 Edition Exterior Connection Pink Metal Window Frame
367	0.40	1941/1961 Edition Exterior Connection Pink Metal Window Frame
368	0.40	1941/1961 Edition Exterior Connection Pink Metal Window Frame
378	0.40	1949 Edition Exterior East Pink Metal Window Lintel
379	0.30	1949 Edition Exterior East Pink Metal Window Lintel
383	0.30	1949 Edition Exterior East Pink Metal Window Frame
411	0.50	1972/1987 Edition Exterior East Brown Metal Northeast Header
412	0.70	1972/1987 Edition Exterior East Brown Metal Northeast Header
413	0.80	1972/1987 Edition Exterior East Brown Metal Northeast Header
429	0.40	1972/1987 Edition Exterior North Gray Metal Exposed Header
430	0.40	1972/1987 Edition Exterior North Gray Metal Exposed Header
431	0.30	1972/1987 Edition Exterior North Gray Metal Exposed Header

5.4 Lead-Based Paint by Laboratory Analysis Inspection Results

Paint chip samples were collected in addition to field XRF measurements. The target ratio expected for this specific item was ten percent (10%) paint chip samples to XRF readings. At times collecting the 10% target ratio is not possible due to conditions where paint may not exist (such as behind wallpaper) or is deemed impractical by the inspector (such as having 100 identical rooms). For this project: 1,681 XRF paint readings were made, while 103 paint chip samples were collected. The result is a 6.1 % ratio. The following paint chip samples were collected and analyzed by a laboratory:

SAMPLE I.D.	SUBSTRATE (C, B, W, P, D, M)	COLOR	COMPONENT	SAMPLE LOCATION	XRF READING	ANALYTICAL RESULTS mg/cm²
01	C	White	Wall	1961 East Level 1 Dry Storage	<0.02	<0.001
02	C	White/Blue	Wall	1961 East Level 1 Rest Room	<0.02	0.001
03	C	White	Wall	1961 East Level 1 Walk-Ins	0.02	<0.001
04	M	White	Door	1961 East Level 1 Elevator	0.04	0.002
05	C/D	White	Wall	1961 East Level 1 Kitchen	0.02	<0.001
06	C/D	White/Green	Wall	1961 East Level 1 Dining Room	<0.02	0.002
07	M	Black	Stair Face	1961 East Level 1 Stairway	0.09	0.001
08	C/D	White	Wall	1961 Lobby	<0.02	0.003
09	C	Off-White	Wall	1961 West Level 1 Business Office	0.07	0.002
10	D	Off-White	Window Ledge	1961 West Level 1 CFO Office	<0.02	<0.001
11	C	Tan	Wall	1961 West Level 1 West Hallway	<0.02	0.002
12	C	Tan	Window Ledge	1961 West Level 1 Medical Records	<0.02	<0.001
13	C	White	Window Ledge	1961 West Level 1 Restroom	<0.02	0.002
14	C/D	Blue	Wall	1961 West Level 1 Classroom	<0.02	0.001
15	M	Gray	Door Frame	1961 West Level 1 Mech Room 11	0.18	0.004
16	C	Off-White	Wall	1961 East Level 2 Room 259	<0.02	0.002
17	C	Off-White	Window Ledge	1961 East Level 2 Room 261	<0.02	0.001
18	C	Off-White	Wall	1961 East Level 2 Room 257	<0.02	0.001
19	C	Off-White	Wall	1961 East Level 2 East Hallway	<0.02	0.002
20	C	White	Window Ledge	1961 East Level 2 Classroom	0.05	0.002
21	P/D	White	Wall	1961 East Level 2 Respiratory Therapy	0.02	<0.001
22	C/D	White	Wall	1961 Level 2 Nurse's Station	<0.02	0.002
23	C	Tan	Wall	1961 West Level 2 Room 251	0.02	0.001
24	C	Tan	Wall	1961 West Level 2 Room 241	0.15	0.002
25	C	Tan	Window Ledge	1961 West Level 2 Room 249	0.03	<0.001
26	C	Off-White	Wall	1961 West Level 2 West Hallway	<0.02	0.002
27	C	Tan	Wall	1961 West Level 2 Room 243	0.04	0.002
28	C	Off-White	Wall	1961 West Level 2 Room 247	0.08	0.002
29	M	Blue	Door Frame	1961 West Level 2 Room 245	0.04	0.012
30	D	Tan	Wall	1949 East Level 2 Maintenance Office	0.03	<0.001
31	M	Off-White	Window Frame	1949 East Level 2 Room 2	0.03	<0.001
32	D	White	Wall	1949 East Level 2 Room 2	0.03	<0.001
33	D	Tan	Wall	1949 East Level 2 Restroom	0.03	<0.001
34	D	Tan	Wall	1949 East Level 2 Mech Room 4	<0.02	<0.001
35	M	Gray	Cabinetry	1949 East Level 2 Staff Lounge	0.02	<0.001
36	D	Off-White	Wall	1949 West Level 2 West Hallway	0.03	0.001
37	D	Tan	Wall	1949 West Level 2 Mech Room 3	<0.02	<0.001
38	D	Tan	Wall	1949 West Level 2 Critical Care 2	<0.02	0.002
39	D	Tan	Wall	1949 West Level 2 Observation	0.03	<0.001
40	M	Tan	Door Frame	1949 West Level 2 Critical Care	0.08	0.004
41	D	Tan	Wall	1949 West Level 2 Restroom	0.02	0.003
42	D	Tan/Orange	Wall	1949/1972 North Level 2 Room 270	0.03	0.002
43	D	Off-White	Wall	1949/1972 North Level 2 Mech Room 2	<0.02	<0.001
44	D	Tan	Wall	1949/1972 North Level 2 North Hallway	0.02	<0.001
45	M	Brown	Fan Coil	1949/1972 North Level 2 Room 276	<0.02	<0.001
46	D	Yellow/Burgundy	Wall	1949/1972 North Level 2 Family Room	<0.02	<0.001
47	D	White/Pink	Wall	1972/1987 Level 2 CT Scan	3.6	<0.001
48	D	White/Pink	Wall	1972/1987 Level 2 CT Scan Operator's Room	3.0	<0.001
49	M	Off-White	Door Frame	1972/1987 Level 2 Nuclear Medicine	NA	0.012
50	M	Off-White	Door Frame	1972/1987 Level 2 Cardio Rehab	0.03	0.011
51	D	White/Pink	Wall	1972/1987 Level 2 Physical Therapy	0.02	<0.001
52	D	White/Pink	Wall	1972/1987 Level 2 Restroom	0.02	<0.001
53	D	Pink	Wall	1972/1987 Level 2 X-Ray #2	4.2	<0.001
54	M	Off-White	Door Frame	1972/1987 Level 2 X-Ray #2	5.5	0.001
55	D	Pink	Wall	1972/1987 Level 2 Dark Room	<0.02	<0.001
56	M	Off-White	Door Frame	1972/1987 Level 2 X-Ray #1	14.9	<0.001
57	D	Pink	Wall	1972/1987 Level 2 X-Ray #1	5.5	0.001
58	D	White/Pink	Wall	1972/1987 Level 2 X-Ray #3	4.8	<0.001
59	M	Off-White	Door Frame	1972/1987 Level 2 X-Ray #3	22.2	0.005
60	D	Off-White	Wall	1972/1987 Level 2 U-Shaped Hallway	<0.02	0.001

SAMPLE I.D.	Substrate (C, B, W, P, D, M)	Color	Component	SAMPLE LOCATION	XRF READING	ANALYTICAL RESULTS mg/cm^2
61	D	Off-White/Mauve	Wall	1972/1987 Level 2 Trauma #4	0.08	<0.001
62	D	White/Pink	Wall	1972/1987 Level 2 Laboratory	<0.02	<0.001
63	D	Off-White/Pink	Wall	1972/1987 Level 2 Waiting Room	<0.02	<0.001
64	D	Off-White/Pink	Wall	1972/1987 Level 2 Trauma	<0.02	<0.001
65	M	Off-White	Door Frame	1972/1987 Level 2 Consultation	<0.02	<0.001
66	M	Blue	Cabinetry	1972/1987 Level 2 Sterilization Area	0.02	0.006
67	M	Yellow	Cabinetry	1972/1987 Level 2 Operating Room	0.4	0.122
68	D	Off-White	Wall	1972/1987 Level 2 Recovery Room	<0.02	<0.001
69	C/D	Tan/White	Wall	1972/1987 Level 2 Mechanical Boiler Room	<0.02	<0.001
70	C	Yellow	Stair Face	1972/1987 Level 2 Mechanical Boiler Room	<0.02	<0.001
71	M	Off-White	Hand Rail	1972/1987 Level 2 Mechanical Boiler Room	0.05	0.019
72	M	Orange	Boiler	1972/1987 Level 2 Mechanical Boiler Room	1.9	0.872
73	C	Gray	Floor	1972/1987 Level 2 Mechanical Boiler Room	<0.02	<0.001
74	D	Off-White	Wall	1972/1987 Level 1 North Stairwell	0.03	<0.001
75	C	White	Wall	1972/1987 Level 1 Communications Room	<0.02	<0.001
76	M	Gray	Door	1972/1987 Level 1 Mech Room 9	<0.02	<0.001
77	W	Gray	Cabinetry	1972/1987 Level 1 Laboratory	<0.02	<0.001
78	D	Pink/Gray	Wall	1972/1987 Level 1 Dialysis Room	0.04	<0.001
79	W	White	Cabinetry	1972/1987 Level 1 Exam Room	<0.02	<0.001
80	D	White	Wall	1949 West Level 1 Hospital Auxilary	0.03	<0.001
81	D	White	Wall	1949 West Level 1 Medical Records	0.03	<0.001
82	C/B	Off-White	Wall	1949 West Level 1 Mech Room	0.08	<0.001
83	M	White	Stairs	1949 West Level 1 Spiral Staircase	0.15	0.029
84	C/D	White	Wall	1949 West Level 1 Nurse's Station	<0.02	<0.001
85	C	White	Wall	1949 West Level 1 West Hallway	<0.02	<0.001
86	D	White	Wall	1949 West Level 1 Patient Room	<0.02	0.011
87	M	Gray	Door Frame	1949 West Level 1 Conference Room	0.08	0.013
88	D	White	Wall	1949 East Level 1 East Hallway	<0.02	<0.001
89	M	Gray	Door Frame	1949 East Level 1 Human Resources	0.15	<0.001
90	C	White	Wall	1949 Level 1 Central Stairway	0.03	0.009
91	M	Brown	Door Frame	1949 East Level 1 Restroom	0.03	<0.001
92	P/D	White	Wall	1949 East Level 1 Central Supply	0.06	0.006
93	M	Pink	Window Frame	1949/1961 East Exterior Connection	0.4	0.095
94	W	Off-White	Bio Hazard Door	1961 East Exterior	0.03	<0.001
95	M	Brown	Door Frame	1961 East Exterior	0.04	0.007
96	M	White	Downspout	1961 East Exterior	0.05	0.013
97	M	Gray	Hand Rail	1949 East Exterior	0.03	<0.001
98	M	Yellow	Safety Railing @ High Voltage	1949/1972 North Exterior	0.03	0.002
99	W	Tan	Fascia	Pump House Exterior	<0.02	<0.001
100	M	Pink	Door	1972/1987 West Exterior	0.03	0.218
101	M	Pink	Window Frame	1949 West Exterior	0.07	<0.001
102	B	Brown	Siding	1961 West Exterior	<0.02	<0.001
103	M	Brown	Window Lintel	1961 West Exterior	0.3	0.078

5.5 Comparison of XRF Results and Paint Chip Results

Lead concentrations derived from laboratory analysis were compared to test data measured by the XRF. Based on this comparison, all negative or less than one milligram per square centimeter compared with one another. For positive or equal to or greater than one milligram per square centimeter the following point needs to be addressed:

- The main boilers from the newest edition were 0.872 mg/cm^2 by paint chip analysis and on average 1.9 mg/cm^2 by XRF analysis. This discrepancy could possibly be due to less than twenty five square centimeter being collected or by not completely scraping the surface to the metal. It is considered to be lead-based paint.

5.6 Comments Related to Lead-Lined or Lead-Containing Components

The following components were identified through at-depth readings by XRF. The XRF results were validated visually by observing the lead sheathing present for both walls and doors. It is believed that door frames are lead-contaminated from lead-containing doors or possibly contain lead within the frame. This is noted by lead concentrations that occur on door frame friction surfaces but was not verified by dust collection techniques.

Average Deep XRF Reading	Area	Description	Quantity
7.8	1972/1987 Edition Level 2 CT Scan	Lead-Lined Sheetrock Walls	325 Sq.Ft.
9.0	1972/1987 Edition Level 2 CT Scan Operator's Room	Lead-Lined Sheetrock Walls	200 Sq.Ft.
8.4	1972/1987 Edition Level 2 X-Ray #2	Lead-Lined Sheetrock Walls	500 Sq.Ft.
54.0		Lead-Lined Doors	3 @ 3' x 7'
11.0		Lead-Lined Metal Door Frames	3 @ 17 Lin.Ft.
8.2	1972/1987 Edition Level 2 X-Ray #1	Lead-Lined Sheetrock Walls	575 Sq.Ft.
45.0		Lead-Lined Doors	3 @ 3' x 7'
26.0		Lead-Lined Metal Door Frames	3 @ 17 Lin.Ft.
9.4	1972/1987 Edition Level 2 X-Ray #3	Lead-Lined Sheetrock Walls	335 Sq.Ft.
9.0		Lead-Lined Door	1 @ 3' x 7'
38.0		Lead-Lined Metal Door Frame	1 @ 17 Lin.Ft.
9.5		Lead-Lined Metal Window Frame	1 @ 14 Lin.Ft.

6.0 ABATEMENT GUIDANCE AND BUDGET ESTIMATES

6.1 Abatement Guidance

While not intended as a scope of Work or Lead Abatement Work Plan, the following information may be useful in planning your project specifically dealing with lead based paint. If painted surfaces will be disturbed during a particular repair job, maintenance function or demolition activity, the Inspection Section of this Report should be consulted to determine if the area contains lead based paint.

When working with lead based paint, it is possible that USPA or OSHA worker training is necessary. In general, workplace practices required when lead based paint is involved include wetting down the surface (except near electrical circuits), sealing work area to avoid contamination of adjacent areas, preparing worksite using plastic sheeting, using proper personal protective equipment (PPE), enforcing personal hygiene practices and cleaning the work area at completion. If the surface area is large, clearance testing should be complete before occupants are allowed back into the room. Information provided to the workers should include the level of PPE required, how extensive the cleaning should be, and any other special precautions.

The following practices should never be used on any surface coated with lead based paint: open-flame burning or torching; machine sanding or grinding (unless equipped with HEPA exhaust vacuum system); dry sanding or scraping; uncontained hydroblasting or high-pressure washing; abrasive blasting or sandblasting; heat guns above 1100°F; methylene chloride strippers; and torch cutting or welding on painted metal surfaces. Dry sweeping or compressed air should never be used for cleanup.

If residents or occupants are present, the work area should be sealed off so that leaded dust does not enter the living area. Any furniture present should be moved or covered with plastic. The presence of lead based paint should be considered in all repair and maintenance work.

Interim controls are intended to make dwellings lead-safe by temporarily controlling lead based paint hazards, as opposed to abatement, which is intended to permanently (20 years) control lead hazards. Interim controls include specialized cleaning, repairs, maintenance, painting, temporary containment; ongoing monitoring of lead based paint hazards and the establishment and operation of management and resident education programs. Interim control measures are fully effective only as long as they are carefully monitored, maintained, and periodically professionally reevaluated. If interim controls are properly maintained, they can be effective indefinitely. As long as surfaces are covered with lead based paint, however, they constitute potential hazards.

Whole component lead abetment practices are recommended and utilized as guidance for cost estimates. Other type of abatement practices, such as chemical stripping, controlled blasting, controlled sanding or controlled grinding may be used based on the scope of work activities. The use of Flame or high heat cutting is only recommended if all other options are not available and must be accompanied by the most stringent environmental controls and PPE.

6.2 Acceptable Abatement Options and Estimated Costs – Paint / Components

Abatement is the removal of either the building component or the paint itself or the near-permanent enclosure of lead based paint hazards. From a public health perspective, properly conducted abatement is the desired response to lead hazards. Abatement has two principal advantages: it provides a long-term solution, and little monitoring or reevaluation of treated surface is necessary since failure is less likely to occur. In contrast to interim controls, lead based paint abatement refers to a group of measures that can be expected to eliminate or reduce exposures to lead hazards for at least 20 years under normal conditions. Abatement costs include the following activities: lead hazard evaluation, planning, cleaning, clearance, and waste disposal.

Abatement Cost Estimate Table

Location	Material Description	Quantity	Abatement Cost Estimate*
1972/1987 Level 2 Mech Room	Orange Metal Boiler	2 Each	$5,000.00
		TOTAL ABATEMENT COST	**$10,000.00**

*Costs are estimated using whole component removal options by certified abatement personnel with no regard to surrounding substrate.

6.3 Acceptable Abatement Options and Estimated Costs – Building Component

Abatement is the removal of either the building component or the paint itself or the near-permanent enclosure of lead based paint hazards. From a public health perspective, properly conducted abatement is the desired response to lead hazards. Abatement has two principal advantages: it provides a long-term solution, and little monitoring or reevaluation of treated surface is necessary since failure is less likely to occur. In contrast to interim controls, lead based paint abatement refers to a group of measures that can be expected to eliminate or reduce exposures to lead hazards for at least 20 years under normal conditions. Abatement costs include the following activities: lead hazard evaluation, planning, cleaning, clearance, and waste disposal.

Abatement Cost Estimate Table

Location	Material Description	Quantity	Abatement Cost Estimate*
1972/1987 Edition Level 2 CT Scan	Lead-Lined Sheetrock Walls	325 Sq.Ft.	$2,000.00
1972/1987 Edition Level 2 CT Scan Operator's Room	Lead-Lined Sheetrock Walls	200 Sq.Ft.	$2,000.00
1972/1987 Edition Level 2 X-Ray #2	Lead-Lined Sheetrock Walls	500 Sq.Ft.	$2,000.00
	Lead-Lined Doors	3 @ 3' x 7'	$300.00
	Lead-Lined Metal Door Frames	3 @ 17 Lin.Ft.	$300.00
1972/1987 Edition Level 2 X-Ray #1	Lead-Lined Sheetrock Walls	575 Sq.Ft.	$2,000.00
	Lead-Lined Doors	3 @ 3' x 7'	$300.00
	Lead-Lined Metal Door Frames	3 @ 17 Lin.Ft.	$300.00
1972/1987 Edition Level 2 X-Ray #3	Lead-Lined Sheetrock Walls	335 Sq.Ft.	$2,000.00
	Lead-Lined Door	1 @ 3' x 7'	$300.00
	Lead-Lined Metal Door Frame	1 @ 17 Lin.Ft.	$300.00
	Lead-Lined Metal Window Frame	1 @ 14 Lin.Ft.	$300.00
		TOTAL ABATEMENT COST	**$22,100.00**

*Costs are estimated using whole component removal options by certified abatement personnel with no regard to surrounding substrate.

APPENDIX A

XRF DATA SHEETS

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 6, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
1		SRM 2573		Red		1.1			No
2		SRM 2573		Red		1.0			No
3		SRM 2573		Red		1.0			No
4	1961 Level 1	Dry Storage	Wall	White	Concrete	<0.02	Negative		No
5	1961 Level 1	Dry Storage	Wall	White	Concrete	<0.02	Negative		No
6	1961 Level 1	Dry Storage	Wall	White	Concrete	<0.02	Negative		No
7	1961 Level 1	Dry Storage	Wall	White	Concrete	<0.02	Negative		No
8	1961 Level 1	Dry Storage	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
9	1961 Level 1	Dry Storage	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
10	1961 Level 1	Dry Storage	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
11	1961 Level 1	Dry Storage	Ceiling	White	Drywall	0.02	Negative		No
12	1961 Level 1	Dry Storage	Ceiling	White	Drywall	0.03	Negative		No
13	1961 Level 1	Dry Storage	Ceiling	White	Drywall	<0.02	Negative		No
14	1961 Level 1	Dry Storage	Door	Brown	Wood	0.03	Negative		No
15	1961 Level 1	Dry Storage	Door	Brown	Wood	<0.03	Negative		No
16	1961 Level 1	Dry Storage	Door	Brown	Wood	<0.02	Negative		No
17	1961 Level 1	Dry Storage	Door Frame	White	Metal	0.06	Negative		No
18	1961 Level 1	Dry Storage	Door Frame	White	Metal	0.03	Negative		No
19	1961 Level 1	Dry Storage	Door Frame	White	Metal	0.03	Negative		No
20	1961 Level 1	Dry Storage	Window Ledge	White	Concrete	<0.02	Negative		No
21	1961 Level 1	Dry Storage	Window Ledge	White	Concrete	<0.02	Negative		No
22	1961 Level 1	Dry Storage	Window Ledge	White	Concrete	<0.02	Negative		No
23	1961 Level 1	Dry Storage	Pipe	White	Metal	0.04	Negative		No
24	1961 Level 1	Dry Storage	Pipe	White	Metal	0.04	Negative		No
25	1961 Level 1	Dry Storage	Pipe	White	Metal	<0.03	Negative		No
26	1961 Level 1	Dry Storage	Pipe Rack	White	Metal	<0.03	Negative		No
27	1961 Level 1	Dry Storage	Pipe Rack	White	Metal	<0.04	Negative		No
28	1961 Level 1	Dry Storage	Pipe Rack	White	Metal	<0.02	Negative		No
29	1961 Level 1	Dry Storage	Window Lintel	White	Metal	0.06	Negative		No
30	1961 Level 1	Dry Storage	Window Lintel	White	Metal	0.04	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 6, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
31	1961 Level 1	Restroom	Wall	W/Blue	Concrete	<0.02	Negative		No
32	1961 Level 1	Restroom	Wall	W/Blue	Concrete	<0.02	Negative		No
33	1961 Level 1	Restroom	Wall	W/Blue	Concrete	<0.02	Negative		No
34	1961 Level 1	Restroom	Wall	W/Blue	Concrete	<0.02	Negative		No
35	1961 Level 1	Restroom	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
36	1961 Level 1	Restroom	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
37	1961 Level 1	Restroom	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
38	1961 Level 1	Restroom	Ceiling	White	Drywall	<0.02	Negative		No
39	1961 Level 1	Restroom	Ceiling	White	Drywall	<0.02	Negative		No
40	1961 Level 1	Restroom	Ceiling	White	Drywall	<0.02	Negative		No
41	1961 Level 1	Restroom	Door	Brown	Wood	<0.03	Negative		No
42	1961 Level 1	Restroom	Door	Brown	Wood	<0.02	Negative		No
43	1961 Level 1	Restroom	Door	Brown	Wood	0.03	Negative		No
44	1961 Level 1	Restroom	Door Frame	White	Metal	<0.02	Negative		No
45	1961 Level 1	Restroom	Door Frame	White	Metal	0.05	Negative		No
46	1961 Level 1	Restroom	Door Frame	White	Metal	<0.02	Negative		No
47	1961 Level 1	Restroom	Pipe	White	Metal	0.09	Negative		No
48	1961 Level 1	Restroom	Pipe	White	Metal	0.02	Negative		No
49	1961 Level 1	Restroom	Pipe	White	Metal	0.02	Negative		No
50	1961 Level 1	Restroom	Fan Coil	Gray	Metal	<0.02	Negative		No
51	1961 Level 1	Restroom	Fan Coil	Gray	Metal	<0.02	Negative		No
52	1961 Level 1	Restroom	Fan Coil	Gray	Metal	<0.02	Negative		No
53	1961 Level 1	Walk-Ins	Wall	White	Concrete	<0.02	Negative		No
54	1961 Level 1	Walk-Ins	Wall	White	Concrete	<0.03	Negative		No
55	1961 Level 1	Walk-Ins	Wall	White	Concrete	<0.02	Negative		No
56	1961 Level 1	Walk-Ins	Wall	White	Concrete	<0.02	Negative		No
57	1961 Level 1	Walk-Ins	Floor	Off-White	Vinyl Floor Tile	<0.03	Negative		No
58	1961 Level 1	Walk-Ins	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
59	1961 Level 1	Walk-Ins	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
60	1961 Level 1	Walk-Ins	Ceiling	White	Drywall	0.06	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

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ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 6, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
61	1961 Level 1	Walk-Ins	Ceiling	White	Drywall	0.03	Negative		No
62	1961 Level 1	Walk-Ins	Ceiling	White	Drywall	0.03	Negative		No
63	1961 Level 1	Walk-Ins	Door Frame	White	Metal	0.03	Negative		No
64	1961 Level 1	Walk-Ins	Door Frame	White	Metal	0.09	Negative		No
65	1961 Level 1	Walk-Ins	Door Frame	White	Metal	0.06	Negative		No
66	1961 Level 1	Walk-Ins	Window Ledge	White	Concrete	<0.02	Negative		No
67	1961 Level 1	Walk-Ins	Window Ledge	White	Concrete	0.02	Negative		No
68	1961 Level 1	Walk-Ins	Window Ledge	White	Concrete	<0.02	Negative		No
69	1961 Level 1	Walk-Ins	Window Lintel	White	Metal	0.14	Negative		No
70	1961 Level 1	Walk-Ins	Window Lintel	White	Metal	0.2	Negative		No
71	1961 Level 1	Walk-Ins	Window Lintel	White	Metal	0.04	Negative		No
72	1961 Level 1	Walk-Ins	Pipe	White	Metal	<0.03	Negative		No
73	1961 Level 1	Walk-Ins	Pipe	White	Metal	0.02	Negative		No
74	1961 Level 1	Walk-Ins	Pipe	White	Metal	0.02	Negative		No
75	1961 Level 1	East Hallway	Wall	White	Drywall/Concrete	<0.02	Negative		No
76	1961 Level 1	East Hallway	Wall	White	Drywall/Concrete	<0.02	Negative		No
77	1961 Level 1	East Hallway	Wall	White	Drywall/Concrete	<0.02	Negative		No
78	1961 Level 1	East Hallway	Wall	White	Drywall/Concrete	<0.02	Negative		No
79	1961 Level 1	East Hallway	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
80	1961 Level 1	East Hallway	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
81	1961 Level 1	East Hallway	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
82	1961 Level 1	East Hallway	Ceiling	White	Drywall	<0.02	Negative		No
83	1961 Level 1	East Hallway	Ceiling	White	Drywall	<0.02	Negative		No
84	1961 Level 1	East Hallway	Ceiling	White	Drywall	<0.02	Negative		No
85	1961 Level 1	East Hallway	Duct Work	White	Metal	<0.02	Negative		No
86	1961 Level 1	East Hallway	Duct Work	White	Metal	<0.02	Negative		No
87	1961 Level 1	East Hallway	Duct Work	White	Metal	<0.02	Negative		No
88	1961 Level 1	Service Elevator	Wall	Gray	Metal	<0.02	Negative		No
89	1961 Level 1	Service Elevator	Wall	Gray	Metal	<0.02	Negative		No
90	1961 Level 1	Service Elevator	Wall	Gray	Metal	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

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TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
91	1961 Level 1	Service Elevator	Wall	Gray	Metal	0.03	Negative		No
92	1961 Level 1	Service Elevator	Ceiling	Black	Metal	<0.03	Negative		No
93	1961 Level 1	Service Elevator	Ceiling	Black	Metal	<0.02	Negative		No
94	1961 Level 1	Service Elevator	Ceiling	Black	Metal	<0.02	Negative		No
95	1961 Level 1	Service Elevator	Door Gate	Black	Metal	<0.02	Negative		No
96	1961 Level 1	Service Elevator	Door Gate	Black	Metal	<0.02	Negative		No
97	1961 Level 1	Service Elevator	Door Gate	Black	Metal	0.04	Negative		No
98	1961 Level 1	Service Elevator	Door	White	Metal	0.05	Negative		No
99	1961 Level 1	Service Elevator	Door	White	Metal	<0.02	Negative		No
100	1961 Level 1	Service Elevator	Door	White	Metal	0.05	Negative		No
101	1961 Level 1	Service Elevator	Door Frame	White	Metal	0.05	Negative		No
102	1961 Level 1	Service Elevator	Door Frame	White	Metal	0.02	Negative		No
103	1961 Level 1	Service Elevator	Door Frame	White	Metal	0.02	Negative		No
104	1961 Level 1	Kitchen	Wall	White	Drywall/Concrete	<0.03	Negative		No
105	1961 Level 1	Kitchen	Wall	White	Drywall/Concrete	<0.02	Negative		No
106	1961 Level 1	Kitchen	Wall	White	Drywall/Concrete	<0.02	Negative		No
107	1961 Level 1	Kitchen	Wall	White	Drywall/Concrete	<0.02	Negative		No
108	1961 Level 1	Kitchen	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
109	1961 Level 1	Kitchen	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
110	1961 Level 1	Kitchen	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
111	1961 Level 1	Kitchen	Ceiling	White	Drywall	<0.02	Negative		No
112	1961 Level 1	Kitchen	Ceiling	White	Drywall	<0.03	Negative		No
113	1961 Level 1	Kitchen	Ceiling	White	Drywall	0.02	Negative		No
114	1961 Level 1	Kitchen	Window Ledge	White	Concrete	<0.03	Negative		No
115	1961 Level 1	Kitchen	Window Ledge	White	Concrete	<0.02	Negative		No
116	1961 Level 1	Kitchen	Window Ledge	White	Concrete	<0.02	Negative		No
117	1961 Level 1	Kitchen	Window Lintel	White	Metal	<0.02	Negative		No
118	1961 Level 1	Kitchen	Window Lintel	White	Metal	<0.02	Negative		No
119	1961 Level 1	Kitchen	Window Lintel	White	Metal	<0.02	Negative		No
120	1961 Level 1	Kitchen	Support Column	White	Metal	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 6, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
121	1961 Level 1	Kitchen	Support Column	White	Metal	<0.02	Negative		No
122	1961 Level 1	Kitchen	Support Column	White	Metal	<0.02	Negative		No
123	1961 Level 1	Kitchen	Pipe	White	Metal	<0.02	Negative		No
124	1961 Level 1	Kitchen	Pipe	White	Metal	<0.02	Negative		No
125	1961 Level 1	Kitchen	Pipe	White	Metal	<0.02	Negative		No
126	1961 Level 1	Dining Room	Wall	W/Green	Drywall/Concrete	<0.02	Negative		No
127	1961 Level 1	Dining Room	Wall	W/Green	Drywall/Concrete	<0.02	Negative		No
128	1961 Level 1	Dining Room	Wall	W/Green	Drywall/Concrete	<0.02	Negative		No
129	1961 Level 1	Dining Room	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
130	1961 Level 1	Dining Room	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
131	1961 Level 1	Dining Room	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
132	1961 Level 1	Dining Room	Ceiling	White	Drywall	<0.02	Negative		No
133	1961 Level 1	Dining Room	Ceiling	White	Drywall	<0.02	Negative		No
134	1961 Level 1	Dining Room	Ceiling	White	Drywall	<0.02	Negative		No
135	1961 Level 1	Dining Room	Door	Brown	Wood	<0.03	Negative		No
136	1961 Level 1	Dining Room	Door	Brown	Wood	<0.02	Negative		No
137	1961 Level 1	Dining Room	Door	Brown	Wood	0.03	Negative		No
138	1961 Level 1	Dining Room	Door Frame	Brown	Metal	0.03	Negative		No
139	1961 Level 1	Dining Room	Door Frame	Brown	Metal	0.02	Negative		No
140	1961 Level 1	Dining Room	Door Frame	Brown	Metal	<0.02	Negative		No
141	1961 Level 1	Dining Room	Window Ledge	White	Concrete	<0.02	Negative		No
142	1961 Level 1	Dining Room	Window Ledge	White	Concrete	<0.02	Negative		No
143	1961 Level 1	Dining Room	Window Ledge	White	Concrete	<0.02	Negative		No
144	1961 Level 1	Dining Room	Window Lintel	White	Metal	<0.02	Negative		No
145	1961 Level 1	Dining Room	Window Lintel	White	Metal	<0.02	Negative		No
146	1961 Level 1	Dining Room	Window Lintel	White	Metal	<0.02	Negative		No
147	1961 Level 1	Dining Room	Support Column	White	Metal	<0.02	Negative		No
148	1961 Level 1	Dining Room	Support Column	White	Metal	<0.02	Negative		No
149	1961 Level 1	Dining Room	Support Column	White	Metal	<0.02	Negative		No
150	1961 Level 1	Dining Room	Fan Coil	Gray	Metal	<0.02	Negative		No

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151	1961 Level 1	Dining Room	Fan Coil	Gray	Metal	<0.02	Negative		No
152	1961 Level 1	Dining Room	Fan Coil	Gray	Metal	<0.02	Negative		No
153		SRM 2573		Red		1.0			No
154		SRM 2573		Red		1.0			No
155		SRM 2573		Red		1.0			No
156		SRM 2573		Red		1.0			No
157		SRM 2573		Red		1.1			No
158		SRM 2573		Red		1.0			No
159	1961 Level 1	Foyer	Ceiling	White	Plaster	<0.02	Negative		No
160	1961 Level 1	Foyer	Ceiling	White	Plaster	<0.02	Negative		No
161	1961 Level 1	Foyer	Ceiling	White	Plaster	<0.02	Negative		No
162	1961 Level 1	Foyer	Floor	Blue	Carpet	0.04	Negative		No
163	1961 Level 1	Foyer	Floor	Blue	Carpet	0.02	Negative		No
164	1961 Level 1	Foyer	Floor	Blue	Carpet	0.03	Negative		No
165	1961 Level 1	Lobby	Wall	White	Drywall/Concrete	<0.02	Negative		No
166	1961 Level 1	Lobby	Wall	White	Drywall/Concrete	<0.02	Negative		No
167	1961 Level 1	Lobby	Wall	White	Drywall/Concrete	<0.02	Negative		No
168	1961 Level 1	Lobby	Wall	White	Drywall/Concrete	<0.02	Negative		No
169	1961 Level 1	Lobby	Floor	Tan/Blue	Vinyl Floor Tile/Carpet	<0.02	Negative		No
170	1961 Level 1	Lobby	Floor	Tan/Blue	Vinyl Floor Tile/Carpet	<0.02	Negative		No
171	1961 Level 1	Lobby	Floor	Tan/Blue	Vinyl Floor Tile/Carpet	<0.02	Negative		No
172	1961 Level 1	Lobby	Ceiling	White	Plaster	<0.02	Negative		No
173	1961 Level 1	Lobby	Ceiling	White	Plaster	<0.02	Negative		No
174	1961 Level 1	Lobby	Ceiling	White	Plaster	<0.02	Negative		No
175	1961 Level 1	Lobby	Door	Brown	Wood	<0.02	Negative		No
176	1961 Level 1	Lobby	Door	Brown	Wood	<0.02	Negative		No
177	1961 Level 1	Lobby	Door	Brown	Wood	<0.02	Negative		No
178	1961 Level 1	Lobby	Door Frame	Gray	Metal	<0.02	Negative		No
179	1961 Level 1	Lobby	Door Frame	Gray	Metal	<0.02	Negative		No
180	1961 Level 1	Lobby	Door Frame	Gray	Metal	<0.02	Negative		No

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181	1961 Level 1	Lobby	Window Ledge	White	Concrete	<0.02	Negative		No
182	1961 Level 1	Lobby	Window Ledge	White	Concrete	<0.02	Negative		No
183	1961 Level 1	Lobby	Window Ledge	White	Concrete	<0.02	Negative		No
184	1961 Level 1	Lobby	Support Column	White	Metal	<0.02	Negative		No
185	1961 Level 1	Lobby	Support Column	White	Metal	<0.02	Negative		No
186	1961 Level 1	Lobby	Support Column	White	Metal	<0.02	Negative		No
187	1961 Level 1	Stairway	Stair Stringer	Black	Metal	<0.02	Negative		No
188	1961 Level 1	Stairway	Stair Stringer	Black	Metal	<0.02	Negative		No
189	1961 Level 1	Stairway	Stair Stringer	Black	Metal	<0.02	Negative		No
190	1961 Level 1	Stairway	Stair Face	Black	Metal	0.14	Negative		No
191	1961 Level 1	Stairway	Stair Face	Black	Metal	0.09	Negative		No
192	1961 Level 1	Stairway	Stair Face	Black	Metal	0.04	Negative		No
193	1961 Level 1	Stairway	Hand Rail	Black	Metal	0.14	Negative		No
194	1961 Level 1	Stairway	Hand Rail	Black	Metal	0.05	Negative		No
195	1961 Level 1	Stairway	Hand Rail	Black	Metal	0.08	Negative		No
196	1961 Level 1	Stairway	Header	Black	Metal	0.05	Negative		No
197	1961 Level 1	Stairway	Header	Black	Metal	0.11	Negative		No
198	1961 Level 1	Stairway	Header	Black	Metal	0.06	Negative		No
199	1961 Level 1	Stairway	Wall	Tan	Concrete	<0.02	Negative		No
200	1961 Level 1	Stairway	Wall	Tan	Concrete	<0.02	Negative		No
201	1961 Level 1	Stairway	Wall	Tan	Concrete	<0.02	Negative		No
202	1961 Level 1	West Hallway	Floor	Blue	Carpet	<0.02	Negative		No
203	1961 Level 1	West Hallway	Floor	Blue	Carpet	<0.02	Negative		No
204	1961 Level 1	West Hallway	Floor	Blue	Carpet	<0.02	Negative		No
205	1961 Level 1	West Hallway	Door	Tan	Metal	<0.03	Negative		No
206	1961 Level 1	West Hallway	Door	Tan	Metal	<0.04	Negative		No
207	1961 Level 1	West Hallway	Door	Tan	Metal	<0.02	Negative		No
208	1961 Level 1	West Hallway	Door Frame	Gray	Metal	0.07	Negative		No
209	1961 Level 1	West Hallway	Door Frame	Gray	Metal	0.04	Negative		No
210	1961 Level 1	West Hallway	Door Frame	Gray	Metal	0.03	Negative		No

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211	1961 Level 1	Business Office	Wall	Off-White	Concrete	0.09	Negative		No
212	1961 Level 1	Business Office	Wall	Off-White	Concrete	0.15	Negative		No
213	1961 Level 1	Business Office	Wall	Off-White	Concrete	0.02	Negative		No
214	1961 Level 1	Business Office	Wall	Off-White	Concrete	<0.02	Negative		No
215	1961 Level 1	Business Office	Floor	Blue	Carpet	<0.02	Negative		No
216	1961 Level 1	Business Office	Floor	Blue	Carpet	<0.02	Negative		No
217	1961 Level 1	Business Office	Floor	Blue	Carpet	<0.02	Negative		No
218	1961 Level 1	Business Office	Door	Brown	Wood	<0.02	Negative		No
219	1961 Level 1	Business Office	Door	Brown	Wood	0.02	Negative		No
220	1961 Level 1	Business Office	Door	Brown	Wood	<0.03	Negative		No
221	1961 Level 1	Business Office	Door Frame	Black	Metal	<0.03	Negative		No
222	1961 Level 1	Business Office	Door Frame	Black	Metal	<0.02	Negative		No
223	1961 Level 1	Business Office	Door Frame	Black	Metal	<0.02	Negative		No
224	1961 Level 1	Business Office	Window Ledge	Off-White	Plaster	<0.02	Negative		No
225	1961 Level 1	Business Office	Window Ledge	Off-White	Plaster	<0.02	Negative		No
226	1961 Level 1	Business Office	Window Ledge	Off-White	Plaster	<0.03	Negative		No
227	1961 Level 1	Business Office	Window Lintel	Off-White	Plaster	<0.02	Negative		No
228	1961 Level 1	Business Office	Window Lintel	Off-White	Plaster	<0.02	Negative		No
229	1961 Level 1	Business Office	Window Lintel	Off-White	Plaster	<0.02	Negative		No
230	1961 Level 1	Business Office	Support Column	Off-White	Metal	<0.02	Negative		No
231	1961 Level 1	Business Office	Support Column	Off-White	Metal	<0.02	Negative		No
232	1961 Level 1	Business Office	Support Column	Off-White	Metal	<0.02	Negative		No
233	1961 Level 1	CFO Office	Wall	Off-White	Concrete	0.05	Negative		No
234	1961 Level 1	CFO Office	Wall	Off-White	Concrete	0.04	Negative		No
235	1961 Level 1	CFO Office	Wall	Off-White	Concrete	0.04	Negative		No
236	1961 Level 1	CFO Office	Floor	Blue	Carpet	<0.02	Negative		No
237	1961 Level 1	CFO Office	Floor	Blue	Carpet	<0.02	Negative		No
238	1961 Level 1	CFO Office	Floor	Blue	Carpet	<0.02	Negative		No
239	1961 Level 1	CFO Office	Door	Brown	Wood	<0.02	Negative		No
240	1961 Level 1	CFO Office	Door	Brown	Wood	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

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241	1961 Level 1	CFO Office	Door	Brown	Wood	<0.02	Negative		No
242	1961 Level 1	CFO Office	Door Frame	Gray	Metal	<0.03	Negative		No
243	1961 Level 1	CFO Office	Door Frame	Gray	Metal	<0.02	Negative		No
244	1961 Level 1	CFO Office	Door Frame	Gray	Metal	<0.03	Negative		No
245	1961 Level 1	CFO Office	Window Ledge	Off-White	Drywall	<0.02	Negative		No
246	1961 Level 1	CFO Office	Window Ledge	Off-White	Drywall	<0.02	Negative		No
247	1961 Level 1	CFO Office	Window Ledge	Off-White	Drywall	<0.02	Negative		No
248	1961 Level 1	CFO Office	Window Lintel	Brown	Drywall	<0.02	Negative		No
249	1961 Level 1	CFO Office	Window Lintel	Brown	Drywall	0.03	Negative		No
250	1961 Level 1	CFO Office	Window Lintel	Brown	Drywall	0.04	Negative		No
251	1961 Level 1	Medical Records	Wall	Off-White	Concrete	0.07	Negative		No
252	1961 Level 1	Medical Records	Wall	Off-White	Concrete	0.02	Negative		No
253	1961 Level 1	Medical Records	Wall	Off-White	Concrete	0.03	Negative		No
254	1961 Level 1	Medical Records	Wall	Off-White	Concrete	0.05	Negative		No
255	1961 Level 1	Medical Records	Floor	Blue	Carpet	<0.02	Negative		No
256	1961 Level 1	Medical Records	Floor	Blue	Carpet	<0.02	Negative		No
257	1961 Level 1	Medical Records	Floor	Blue	Carpet	<0.02	Negative		No
258	1961 Level 1	Medical Records	Door	Brown	Wood	<0.02	Negative		No
259	1961 Level 1	Medical Records	Door	Brown	Wood	0.02	Negative		No
260	1961 Level 1	Medical Records	Door	Brown	Wood	<0.02	Negative		No
261	1961 Level 1	Medical Records	Door Frame	Tan	Metal	<0.02	Negative		No
262	1961 Level 1	Medical Records	Door Frame	Tan	Metal	<0.02	Negative		No
263	1961 Level 1	Medical Records	Door Frame	Tan	Metal	<0.02	Negative		No
264	1961 Level 1	Medical Records	Window Ledge	Tan	Concrete	<0.02	Negative		No
265	1961 Level 1	Medical Records	Window Ledge	Tan	Concrete	<0.02	Negative		No
266	1961 Level 1	Medical Records	Window Ledge	Tan	Concrete	<0.02	Negative		No
267	1961 Level 1	Medical Records	Window Lintel	Tan	Metal	0.07	Negative		No
268	1961 Level 1	Medical Records	Window Lintel	Tan	Metal	0.08	Negative		No
269	1961 Level 1	Medical Records	Window Lintel	Tan	Metal	0.26	Negative		No
270	1961 Level 1	Classroom	Wall	Blue	Drywall/Concrete	<0.02	Negative		No

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271	1961 Level 1	Classroom	Wall	Blue	Drywall/Concrete	<0.02	Negative		No
272	1961 Level 1	Classroom	Wall	Blue	Drywall/Concrete	<0.02	Negative		No
273	1961 Level 1	Classroom	Wall	Blue	Drywall/Concrete	<0.02	Negative		No
274	1961 Level 1	Classroom	Floor	Blue	Carpet	<0.02	Negative		No
275	1961 Level 1	Classroom	Floor	Blue	Carpet	0.03	Negative		No
276	1961 Level 1	Classroom	Floor	Blue	Carpet	<0.02	Negative		No
277	1961 Level 1	Classroom	Door	Brown	Wood	<0.02	Negative		No
278	1961 Level 1	Classroom	Door	Brown	Wood	<0.03	Negative		No
279	1961 Level 1	Classroom	Door	Brown	Wood	<0.03	Negative		No
280	1961 Level 1	Classroom	Door Frame	Gray	Metal	0.02	Negative		No
281	1961 Level 1	Classroom	Door Frame	Gray	Metal	<0.02	Negative		No
282	1961 Level 1	Classroom	Door Frame	Gray	Metal	<0.02	Negative		No
283	1961 Level 1	Classroom	Window Ledge	Blue	Concrete	<0.02	Negative		No
284	1961 Level 1	Classroom	Window Ledge	Blue	Concrete	<0.02	Negative		No
285	1961 Level 1	Classroom	Window Ledge	Blue	Concrete	<0.02	Negative		No
286	1961 Level 1	Classroom	Window Lintel	Blue	Concrete	<0.02	Negative		No
287	1961 Level 1	Classroom	Window Lintel	Blue	Concrete	<0.02	Negative		No
288	1961 Level 1	Classroom	Window Lintel	Blue	Concrete	<0.02	Negative		No
289	1961 Level 1	Mech Room 11	Ceiling	White	Plaster	0.07	Negative		No
290	1961 Level 1	Mech Room 11	Ceiling	White	Plaster	0.1	Negative		No
291	1961 Level 1	Mech Room 11	Ceiling	White	Plaster	<0.03	Negative		No
292	1961 Level 1	Mech Room 11	Door	Brown	Wood	<0.02	Negative		No
293	1961 Level 1	Mech Room 11	Door	Brown	Wood	<0.02	Negative		No
294	1961 Level 1	Mech Room 11	Door	Brown	Wood	<0.02	Negative		No
295	1961 Level 1	Mech Room 11	Door Frame	Gray	Metal	0.17	Negative		No
296	1961 Level 1	Mech Room 11	Door Frame	Gray	Metal	0.15	Negative		No
297	1961 Level 1	Mech Room 11	Door Frame	Gray	Metal	0.23	Negative		No
298	1961 Level 1	Mech Room 11	Window Ledge	Gray	Concrete	<0.02	Negative		No
299	1961 Level 1	Mech Room 11	Window Ledge	Gray	Concrete	<0.02	Negative		No
300	1961 Level 1	Mech Room 11	Window Ledge	Gray	Concrete	0.02	Negative		No

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301	1961 Level 1	Mech Room 11	Window Lintel	Gray	Concrete	<0.02	Negative		No
302	1961 Level 1	Mech Room 11	Window Lintel	Gray	Concrete	<0.02	Negative		No
303	1961 Level 1	Mech Room 11	Window Lintel	Gray	Concrete	<0.03	Negative		No
304	1961 Level 1	Restroom	Wall	White	Concrete	<0.02	Negative		No
305	1961 Level 1	Restroom	Wall	White	Concrete	<0.02	Negative		No
306	1961 Level 1	Restroom	Wall	White	Concrete	<0.02	Negative		No
307	1961 Level 1	Restroom	Wall	White	Concrete	<0.02	Negative		No
308	1961 Level 1	Restroom	Ceiling	White	Plaster	0.04	Negative		No
309	1961 Level 1	Restroom	Ceiling	White	Plaster	<0.02	Negative		No
310	1961 Level 1	Restroom	Ceiling	White	Plaster	0.05	Negative		No
311	1961 Level 1	Restroom	Door	Brown	Wood	<0.02	Negative		No
312	1961 Level 1	Restroom	Door	Brown	Wood	<0.02	Negative		No
313	1961 Level 1	Restroom	Door	Brown	Wood	<0.02	Negative		No
314	1961 Level 1	Restroom	Door Frame	Tan	Metal	<0.03	Negative		No
315	1961 Level 1	Restroom	Door Frame	Tan	Metal	<0.02	Negative		No
316	1961 Level 1	Restroom	Door Frame	Tan	Metal	<0.02	Negative		No
317	1961 Level 1	Restroom	Window Lintel	White	Concrete	<0.02	Negative		No
318	1961 Level 1	Restroom	Window Lintel	White	Concrete	<0.02	Negative		No
319	1961 Level 1	Restroom	Window Lintel	White	Concrete	<0.02	Negative		No
320	1961 Level 2	Room 259	Wall	Off-White	Concrete	<0.02	Negative		No
321	1961 Level 2	Room 259	Wall	Off-White	Concrete	<0.02	Negative		No
322	1961 Level 2	Room 259	Wall	Off-White	Concrete	<0.02	Negative		No
323	1961 Level 2	Room 259	Wall	Off-White	Concrete	<0.02	Negative		No
324	1961 Level 2	Room 259	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
325	1961 Level 2	Room 259	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
326	1961 Level 2	Room 259	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
327	1961 Level 2	Room 259	Ceiling	White	Plaster	0.02	Negative		No
328	1961 Level 2	Room 259	Ceiling	White	Plaster	0.02	Negative		No
329	1961 Level 2	Room 259	Ceiling	White	Plaster	<0.02	Negative		No
330	1961 Level 2	Room 259	Door	Brown	Wood	<0.02	Negative		No

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XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 6, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
331	1961 Level 2	Room 259	Door	Brown	Wood	<0.02	Negative		No
332	1961 Level 2	Room 259	Door	Brown	Wood	<0.02	Negative		No
333	1961 Level 2	Room 259	Door Frame	Off-White	Metal	<0.02	Negative		No
334	1961 Level 2	Room 259	Door Frame	Off-White	Metal	<0.02	Negative		No
335	1961 Level 2	Room 259	Door Frame	Off-White	Metal	<0.02	Negative		No
336	1961 Level 2	Room 259	Window Ledge	White	Concrete	0.15	Negative		No
337	1961 Level 2	Room 259	Window Ledge	White	Concrete	0.04	Negative		No
338	1961 Level 2	Room 259	Window Ledge	White	Concrete	0.05	Negative		No
339	1961 Level 2	Room 257	Wall	Off-White	Concrete	<0.02	Negative		No
340	1961 Level 2	Room 257	Wall	Off-White	Concrete	<0.02	Negative		No
341	1961 Level 2	Room 257	Wall	Off-White	Concrete	<0.02	Negative		No
342	1961 Level 2	Room 257	Wall	Off-White	Concrete	<0.02	Negative		No
343	1961 Level 2	Room 257	Floor	Pink	Vinyl Floor Tile	<0.02	Negative		No
344	1961 Level 2	Room 257	Floor	Pink	Vinyl Floor Tile	<0.02	Negative		No
345	1961 Level 2	Room 257	Floor	Pink	Vinyl Floor Tile	<0.02	Negative		No
346	1961 Level 2	Room 257	Ceiling	White	Plaster	<0.02	Negative		No
347	1961 Level 2	Room 257	Ceiling	White	Plaster	<0.02	Negative		No
348	1961 Level 2	Room 257	Ceiling	White	Plaster	<0.02	Negative		No
349	1961 Level 2	Room 257	Door	Brown	Wood	<0.02	Negative		No
350	1961 Level 2	Room 257	Door	Brown	Wood	<0.02	Negative		No
351	1961 Level 2	Room 257	Door	Brown	Wood	<0.02	Negative		No
352	1961 Level 2	Room 257	Door Frame	Off-White	Metal	0.02	Negative		No
353	1961 Level 2	Room 257	Door Frame	Off-White	Metal	0.03	Negative		No
354	1961 Level 2	Room 257	Door Frame	Off-White	Metal	0.06	Negative		No
355	1961 Level 2	Room 257	Window Ledge	White	Concrete	<0.02	Negative		No
356	1961 Level 2	Room 257	Window Ledge	White	Concrete	<0.02	Negative		No
357	1961 Level 2	Room 257	Window Ledge	White	Concrete	<0.02	Negative		No
358	1961 Level 2	Room 257	Window Lintel	White	Concrete	0.02	Negative		No
359	1961 Level 2	Room 257	Window Lintel	White	Concrete	0.05	Negative		No
360	1961 Level 2	Room 257	Window Lintel	White	Concrete	0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

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TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
361	1961 Level 2	East Hallway	Wall	Off-White	Concrete	<0.02	Negative		No
362	1961 Level 2	East Hallway	Wall	Off-White	Concrete	<0.02	Negative		No
363	1961 Level 2	East Hallway	Wall	Off-White	Concrete	<0.02	Negative		No
364	1961 Level 2	East Hallway	Wall	Off-White	Concrete	<0.02	Negative		No
365	1961 Level 2	East Hallway	Floor	OW/Pink	Vinyl Floor Tile	<0.02	Negative		No
366	1961 Level 2	East Hallway	Floor	OW/Pink	Vinyl Floor Tile	<0.02	Negative		No
367	1961 Level 2	East Hallway	Floor	OW/Pink	Vinyl Floor Tile	<0.02	Negative		No
368	1961 Level 2	East Hallway	Door	Off-White	Metal	0.02	Negative		No
369	1961 Level 2	East Hallway	Door	Off-White	Metal	0.02	Negative		No
370	1961 Level 2	East Hallway	Door	Off-White	Metal	0.05	Negative		No
371	1961 Level 2	East Hallway	Door Frame	Off-White	Metal	0.07	Negative		No
372	1961 Level 2	East Hallway	Door Frame	Off-White	Metal	0.07	Negative		No
373	1961 Level 2	East Hallway	Door Frame	Off-White	Metal	0.03	Negative		No
374	1961 Level 2	Room 261	Wall	Off-White	Drywall/Concrete	<0.02	Negative		No
375	1961 Level 2	Room 261	Wall	Off-White	Drywall/Concrete	<0.02	Negative		No
376	1961 Level 2	Room 261	Wall	Off-White	Drywall/Concrete	<0.02	Negative		No
377	1961 Level 2	Room 261	Wall	Off-White	Drywall/Concrete	<0.02	Negative		No
378	1961 Level 2	Room 261	Floor	Pink	Vinyl Floor Tile	<0.02	Negative		No
379	1961 Level 2	Room 261	Floor	Pink	Vinyl Floor Tile	<0.02	Negative		No
380	1961 Level 2	Room 261	Floor	Pink	Vinyl Floor Tile	<0.02	Negative		No
381	1961 Level 2	Room 261	Ceiling	White	Plaster	<0.02	Negative		No
382	1961 Level 2	Room 261	Ceiling	White	Plaster	<0.03	Negative		No
383	1961 Level 2	Room 261	Ceiling	White	Plaster	<0.02	Negative		No
384	1961 Level 2	Room 261	Door	Brown	Wood	<0.03	Negative		No
385	1961 Level 2	Room 261	Door	Brown	Wood	<0.02	Negative		No
386	1961 Level 2	Room 261	Door	Brown	Wood	<0.02	Negative		No
387	1961 Level 2	Room 261	Door Frame	Off-White	Metal	<0.02	Negative		No
388	1961 Level 2	Room 261	Door Frame	Off-White	Metal	0.03	Negative		No
389	1961 Level 2	Room 261	Door Frame	Off-White	Metal	0.04	Negative		No
390	1961 Level 2	Room 261	Window Ledge	Off-White	Concrete	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

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391	1961 Level 2	Room 261	Window Ledge	Off-White	Concrete	<0.02	Negative		No
392	1961 Level 2	Room 261	Window Ledge	Off-White	Concrete	<0.02	Negative		No
393	1961 Level 2	Room 261	Window Lintel	Off-White	Concrete	0.03	Negative		No
394	1961 Level 2	Room 261	Window Lintel	Off-White	Concrete	0.02	Negative		No
395	1961 Level 2	Room 261	Window Lintel	Off-White	Concrete	<0.02	Negative		No
396	1961 Level 2	Classroom	Wall	Off-White	Drywall/Concrete	<0.02	Negative		No
397	1961 Level 2	Classroom	Wall	Off-White	Drywall/Concrete	<0.02	Negative		No
398	1961 Level 2	Classroom	Wall	Off-White	Drywall/Concrete	<0.02	Negative		No
399	1961 Level 2	Classroom	Wall	Off-White	Drywall/Concrete	<0.02	Negative		No
400	1961 Level 2	Classroom	Floor	OW/Pink	Vinyl Floor Tile	<0.02	Negative		No
401	1961 Level 2	Classroom	Floor	OW/Pink	Vinyl Floor Tile	<0.02	Negative		No
402	1961 Level 2	Classroom	Floor	OW/Pink	Vinyl Floor Tile	<0.02	Negative		No
403	1961 Level 2	Classroom	Ceiling	White	Plaster	<0.02	Negative		No
404	1961 Level 2	Classroom	Ceiling	White	Plaster	<0.02	Negative		No
405	1961 Level 2	Classroom	Ceiling	White	Plaster	<0.02	Negative		No
406	1961 Level 2	Classroom	Door	Brown	Wood	<0.02	Negative		No
407	1961 Level 2	Classroom	Door	Brown	Wood	<0.02	Negative		No
408	1961 Level 2	Classroom	Door	Brown	Wood	<0.02	Negative		No
409	1961 Level 2	Classroom	Door Frame	Off-White	Metal	<0.02	Negative		No
410	1961 Level 2	Classroom	Door Frame	Off-White	Metal	<0.02	Negative		No
411	1961 Level 2	Classroom	Door Frame	Off-White	Metal	0.02	Negative		No
412	1961 Level 2	Classroom	Window Ledge	White	Concrete	0.07	Negative		No
413	1961 Level 2	Classroom	Window Ledge	White	Concrete	0.03	Negative		No
414	1961 Level 2	Classroom	Window Ledge	White	Concrete	0.04	Negative		No
415	1961 Level 2	Classroom	Window Lintel	White	Concrete	<0.02	Negative		No
416	1961 Level 2	Classroom	Window Lintel	White	Concrete	<0.02	Negative		No
417	1961 Level 2	Classroom	Window Lintel	White	Concrete	<0.02	Negative		No
418	1961 Level 2	Respiratory Therapy	Wall	White	Plaster/Drywall	<0.02	Negative		No
419	1961 Level 2	Respiratory Therapy	Wall	White	Plaster/Drywall	<0.02	Negative		No
420	1961 Level 2	Respiratory Therapy	Wall	White	Plaster/Drywall	<0.02	Negative		No

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421	1961 Level 2	Respiratory Therapy	Wall	White	Plaster/Drywall	0.03	Negative		No
422	1961 Level 2	Respiratory Therapy	Floor	OW/Blue	Vinyl Floor Tile/Carpet	<0.02	Negative		No
423	1961 Level 2	Respiratory Therapy	Floor	OW/Blue	Vinyl Floor Tile/Carpet	<0.02	Negative		No
424	1961 Level 2	Respiratory Therapy	Floor	OW/Blue	Vinyl Floor Tile/Carpet	<0.03	Negative		No
425	1961 Level 2	Respiratory Therapy	Door	Brown	Wood	<0.02	Negative		No
426	1961 Level 2	Respiratory Therapy	Door	Brown	Wood	<0.02	Negative		No
427	1961 Level 2	Respiratory Therapy	Door	Brown	Wood	<0.02	Negative		No
428	1961 Level 2	Respiratory Therapy	Door Frame	Tan	Metal	<0.02	Negative		No
429	1961 Level 2	Respiratory Therapy	Door Frame	Tan	Metal	<0.02	Negative		No
430	1961 Level 2	Respiratory Therapy	Door Frame	Tan	Metal	<0.02	Negative		No
431	1961 Level 2	Respiratory Therapy	Window Ledge	White	Concrete	<0.02	Negative		No
432	1961 Level 2	Respiratory Therapy	Window Ledge	White	Concrete	<0.02	Negative		No
433	1961 Level 2	Respiratory Therapy	Window Ledge	White	Concrete	<0.02	Negative		No
434	1961 Level 2	Respiratory Therapy	Window Lintel	White	Concrete	<0.02	Negative		No
435	1961 Level 2	Respiratory Therapy	Window Lintel	White	Concrete	<0.04	Negative		No
436	1961 Level 2	Respiratory Therapy	Window Lintel	White	Concrete	<0.02	Negative		No
437	1961 Level 2	Nurse's Station	Wall	White	Drywall/Concrete	<0.02	Negative		No
438	1961 Level 2	Nurse's Station	Wall	White	Drywall/Concrete	<0.02	Negative		No
439	1961 Level 2	Nurse's Station	Wall	White	Drywall/Concrete	<0.02	Negative		No
440	1961 Level 2	Nurse's Station	Wall	White	Drywall/Concrete	<0.02	Negative		No
441	1961 Level 2	Nurse's Station	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
442	1961 Level 2	Nurse's Station	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
443	1961 Level 2	Nurse's Station	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
444	1961 Level 2	Nurse's Station	Door	Brown	Wood	<0.03	Negative		No
445	1961 Level 2	Nurse's Station	Door	Brown	Wood	<0.02	Negative		No
446	1961 Level 2	Nurse's Station	Door	Brown	Wood	<0.02	Negative		No
447	1961 Level 2	Nurse's Station	Door Frame	Off-White	Metal	<0.02	Negative		No
448	1961 Level 2	Nurse's Station	Door Frame	Off-White	Metal	<0.02	Negative		No
449	1961 Level 2	Nurse's Station	Door Frame	Off-White	Metal	0.03	Negative		No
450	1961 Level 2	Nurse's Station	Window Ledge	Off-White	Concrete	<0.02	Negative		No

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451	1961 Level 2	Nurse's Station	Window Ledge	Off-White	Concrete	<0.02	Negative		No
452	1961 Level 2	Nurse's Station	Window Ledge	Off-White	Concrete	0.06	Negative		No
453	1961 Level 2	Nurse's Station	Window Lintel	Off-White	Concrete	0.22	Negative		No
454	1961 Level 2	Nurse's Station	Window Lintel	Off-White	Concrete	0.12	Negative		No
455	1961 Level 2	Nurse's Station	Window Lintel	Off-White	Concrete	0.12	Negative		No
456	1961 Level 2	Nurse's Station	Support Column	White	Concrete	<0.03	Negative		No
457	1961 Level 2	Nurse's Station	Support Column	White	Concrete	<0.02	Negative		No
458	1961 Level 2	Nurse's Station	Support Column	White	Concrete	<0.03	Negative		No
459	1961 Level 2	West Hallway	Wall	Off-White	Concrete	<0.02	Negative		No
460	1961 Level 2	West Hallway	Wall	Off-White	Concrete	<0.02	Negative		No
461	1961 Level 2	West Hallway	Wall	Off-White	Concrete	<0.02	Negative		No
462	1961 Level 2	West Hallway	Wall	Off-White	Concrete	<0.02	Negative		No
463	1961 Level 2	West Hallway	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
464	1961 Level 2	West Hallway	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
465	1961 Level 2	West Hallway	Floor	Tan/Brown	Vinyl Floor Tile	0.03	Negative		No
466	1961 Level 2	West Hallway	Door	Brown	Wood	0.12	Negative		No
467	1961 Level 2	West Hallway	Door	Brown	Wood	0.22	Negative		No
468	1961 Level 2	West Hallway	Door	Brown	Wood	0.08	Negative		No
469	1961 Level 2	West Hallway	Door Frame	Gray	Metal	<0.02	Negative		No
470	1961 Level 2	West Hallway	Door Frame	Gray	Metal	<0.03	Negative		No
471	1961 Level 2	West Hallway	Door Frame	Gray	Metal	<0.03	Negative		No
472	1961 Level 2	Room 241	Wall	Tan/Brown	Concrete	<0.02	Negative		No
473	1961 Level 2	Room 241	Wall	Tan/Brown	Concrete	0.5	Negative		No
474	1961 Level 2	Room 241	Wall	Tan/Brown	Concrete	0.03	Negative		No
475	1961 Level 2	Room 241	Wall	Tan/Brown	Concrete	0.06	Negative		No
476	1961 Level 2	Room 241	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
477	1961 Level 2	Room 241	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
478	1961 Level 2	Room 241	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
479	1961 Level 2	Room 241	Ceiling	White	Plaster	<0.02	Negative		No
480	1961 Level 2	Room 241	Ceiling	White	Plaster	0.02	Negative		No
481	1961 Level 2	Room 241	Ceiling	White	Plaster	<0.02	Negative		No
482	1961 Level 2	Room 241	Door	Brown	Wood	<0.02	Negative		No
483	1961 Level 2	Room 241	Door	Brown	Wood	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

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484	1961 Level 2	Room 241	Door	Brown	Wood	<0.02	Negative		No
485	1961 Level 2	Room 241	Door Frame	Brown	Metal	0.06	Negative		No
486	1961 Level 2	Room 241	Door Frame	Brown	Metal	0.19	Negative		No
487	1961 Level 2	Room 241	Door Frame	Brown	Metal	0.06	Negative		No
488	1961 Level 2	Room 241	Window Ledge	White	Concrete	<0.02	Negative		No
489	1961 Level 2	Room 241	Window Ledge	White	Concrete	<0.02	Negative		No
490	1961 Level 2	Room 241	Window Ledge	White	Concrete	<0.02	Negative		No
491	1961 Level 2	Room 241	Window Lintel	White	Concrete	<0.02	Negative		No
492	1961 Level 2	Room 241	Window Lintel	White	Concrete	0.08	Negative		No
493	1961 Level 2	Room 241	Window Lintel	White	Concrete	0.07	Negative		No
494	1961 Level 2	Room 243	Wall	Tan	Concrete	<0.02	Negative		No
495	1961 Level 2	Room 243	Wall	Tan	Concrete	<0.02	Negative		No
496	1961 Level 2	Room 243	Wall	Tan	Concrete	0.11	Negative		No
497	1961 Level 2	Room 243	Wall	Tan	Concrete	0.02	Negative		No
498	1961 Level 2	Room 243	Floor	Tan/Brown	Vinyl Floor Tile	<0.04	Negative		No
499	1961 Level 2	Room 243	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
500	1961 Level 2	Room 243	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
501	1961 Level 2	Room 243	Ceiling	White	Plaster	<0.02	Negative		No
502	1961 Level 2	Room 243	Ceiling	White	Plaster	<0.02	Negative		No
503	1961 Level 2	Room 243	Ceiling	White	Plaster	<0.02	Negative		No
504	1961 Level 2	Room 243	Door	Brown	Wood	<0.02	Negative		No
505	1961 Level 2	Room 243	Door	Brown	Wood	<0.02	Negative		No
506	1961 Level 2	Room 243	Door	Brown	Wood	<0.02	Negative		No
507	1961 Level 2	Room 243	Door Frame	Brown	Metal	0.02	Negative		No
508	1961 Level 2	Room 243	Door Frame	Brown	Metal	0.06	Negative		No
509	1961 Level 2	Room 243	Door Frame	Brown	Metal	0.06	Negative		No
510	1961 Level 2	Room 243	Window Ledge	White	Concrete	0.02	Negative		No
511	1961 Level 2	Room 243	Window Ledge	White	Concrete	<0.02	Negative		No
512	1961 Level 2	Room 243	Window Ledge	White	Concrete	<0.02	Negative		No
513	1961 Level 2	Room 243	Window Lintel	White	Concrete	0.03	Negative		No

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514	1961 Level 2	Room 243	Window Lintel	White	Concrete	0.07	Negative		No
515	1961 Level 2	Room 243	Window Lintel	White	Concrete	0.03	Negative		No
516	1961 Level 2	Room 245	Wall	Tan/Blue	Concrete	<0.02	Negative		No
517	1961 Level 2	Room 245	Wall	Tan/Blue	Concrete	<0.02	Negative		No
518	1961 Level 2	Room 245	Wall	Tan/Blue	Concrete	<0.02	Negative		No
519	1961 Level 2	Room 245	Wall	Tan/Blue	Concrete	<0.02	Negative		No
520	1961 Level 2	Room 245	Floor	Tan/Blue	Vinyl Floor Tile	<0.02	Negative		No
521	1961 Level 2	Room 245	Floor	Tan/Blue	Vinyl Floor Tile	<0.02	Negative		No
522	1961 Level 2	Room 245	Floor	Tan/Blue	Vinyl Floor Tile	<0.02	Negative		No
523	1961 Level 2	Room 245	Ceiling	White	Plaster	<0.02	Negative		No
524	1961 Level 2	Room 245	Ceiling	White	Plaster	<0.02	Negative		No
525	1961 Level 2	Room 245	Ceiling	White	Plaster	<0.02	Negative		No
526	1961 Level 2	Room 245	Door	Brown	Wood	0.05	Negative		No
527	1961 Level 2	Room 245	Door	Brown	Wood	0.04	Negative		No
528	1961 Level 2	Room 245	Door	Brown	Wood	0.04	Negative		No
529	1961 Level 2	Room 245	Door Frame	Blue	Metal	0.06	Negative		No
530	1961 Level 2	Room 245	Door Frame	Blue	Metal	0.02	Negative		No
531	1961 Level 2	Room 245	Door Frame	Blue	Metal	0.04	Negative		No
532	1961 Level 2	Room 245	Window Ledge	Off-White	Concrete	<0.02	Negative		No
533	1961 Level 2	Room 245	Window Ledge	Off-White	Concrete	<0.02	Negative		No
534	1961 Level 2	Room 245	Window Ledge	Off-White	Concrete	<0.02	Negative		No
535	1961 Level 2	Room 245	Window Lintel	Blue	Concrete	0.05	Negative		No
536	1961 Level 2	Room 245	Window Lintel	Blue	Concrete	0.05	Negative		No
537	1961 Level 2	Room 245	Window Lintel	Blue	Concrete	0.03	Negative		No
538	1961 Level 2	Room 247	Wall	Off-White	Concrete	<0.02	Negative		No
539	1961 Level 2	Room 247	Wall	Off-White	Concrete	0.23	Negative		No
540	1961 Level 2	Room 247	Wall	Off-White	Concrete	<0.02	Negative		No
541	1961 Level 2	Room 247	Wall	Off-White	Concrete	0.05	Negative		No
542	1961 Level 2	Room 247	Floor	Tan/Brown	Vinyl Floor Tile	<0.03	Negative		No

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CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 6, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
543	1961 Level 2	Room 247	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
544	1961 Level 2	Room 247	Floor	Tan/Brown	Vinyl Floor Tile	<0.05	Negative		No
545	1961 Level 2	Room 247	Ceiling	White	Plaster	<0.02	Negative		No
546	1961 Level 2	Room 247	Ceiling	White	Plaster	<0.02	Negative		No
547	1961 Level 2	Room 247	Ceiling	White	Plaster	<0.02	Negative		No
548	1961 Level 2	Room 247	Door	Brown	Wood	<0.02	Negative		No
549	1961 Level 2	Room 247	Door	Brown	Wood	<0.02	Negative		No
550	1961 Level 2	Room 247	Door	Brown	Wood	<0.02	Negative		No
551	1961 Level 2	Room 247	Door Frame	Off-White	Metal	0.05	Negative		No
552	1961 Level 2	Room 247	Door Frame	Off-White	Metal	0.11	Negative		No
553	1961 Level 2	Room 247	Door Frame	Off-White	Metal	0.06	Negative		No
554	1961 Level 2	Room 247	Window Ledge	White	Concrete	<0.03	Negative		No
555	1961 Level 2	Room 247	Window Ledge	White	Concrete	<0.02	Negative		No
556	1961 Level 2	Room 247	Window Ledge	White	Concrete	<0.02	Negative		No
557	1961 Level 2	Room 247	Window Lintel	White	Concrete	0.03	Negative		No
558	1961 Level 2	Room 247	Window Lintel	White	Concrete	0.03	Negative		No
559	1961 Level 2	Room 247	Window Lintel	White	Concrete	0.05	Negative		No
560	1961 Level 2	Room 249	Wall	Tan	Concrete	0.02	Negative		No
561	1961 Level 2	Room 249	Wall	Tan	Concrete	<0.02	Negative		No
562	1961 Level 2	Room 249	Wall	Tan	Concrete	<0.02	Negative		No
563	1961 Level 2	Room 249	Wall	Tan	Concrete	<0.03	Negative		No
564	1961 Level 2	Room 249	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
565	1961 Level 2	Room 249	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
566	1961 Level 2	Room 249	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
567	1961 Level 2	Room 249	Ceiling	White	Plaster	<0.02	Negative		No
568	1961 Level 2	Room 249	Ceiling	White	Plaster	<0.02	Negative		No
569	1961 Level 2	Room 249	Ceiling	White	Plaster	<0.02	Negative		No
570	1961 Level 2	Room 249	Door	Brown	Wood	<0.02	Negative		No
571	1961 Level 2	Room 249	Door	Brown	Wood	<0.02	Negative		No
572	1961 Level 2	Room 249	Door	Brown	Wood	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 6, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
573	1961 Level 2	Room 249	Door Frame	Brown	Metal	0.02	Negative		No
574	1961 Level 2	Room 249	Door Frame	Brown	Metal	0.03	Negative		No
575	1961 Level 2	Room 249	Door Frame	Brown	Metal	0.03	Negative		No
576	1961 Level 2	Room 249	Window Ledge	Tan	Concrete	0.05	Negative		No
577	1961 Level 2	Room 249	Window Ledge	Tan	Concrete	<0.02	Negative		No
578	1961 Level 2	Room 249	Window Ledge	Tan	Concrete	0.02	Negative		No
579	1961 Level 2	Room 249	Window Ledge	Tan	Concrete	<0.03	Negative		No
580	1961 Level 2	Room 249	Window Ledge	Tan	Concrete	0.03	Negative		No
581	1961 Level 2	Room 249	Window Ledge	Tan	Concrete	0.02	Negative		No
582	1961 Level 2	Room 251	Wall	Tan	Concrete	<0.02	Negative		No
583	1961 Level 2	Room 251	Wall	Tan	Concrete	0.02	Negative		No
584	1961 Level 2	Room 251	Wall	Tan	Concrete	<0.02	Negative		No
585	1961 Level 2	Room 251	Wall	Tan	Concrete	<0.02	Negative		No
586	1961 Level 2	Room 251	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
587	1961 Level 2	Room 251	Floor	Tan/Brown	Vinyl Floor Tile	<0.02	Negative		No
588	1961 Level 2	Room 251	Floor	Tan/Brown	Vinyl Floor Tile	<0.04	Negative		No
589	1961 Level 2	Room 251	Ceiling	White	Plaster	0.4	Negative		No
590	1961 Level 2	Room 251	Ceiling	White	Plaster	0.5	Negative		No
591	1961 Level 2	Room 251	Ceiling	White	Plaster	0.5	Negative		No
592	1961 Level 2	Room 251	Door	Brown	Wood	<0.02	Negative		No
593	1961 Level 2	Room 251	Door	Brown	Wood	<0.02	Negative		No
594	1961 Level 2	Room 251	Door	Brown	Wood	<0.02	Negative		No
595	1961 Level 2	Room 251	Door Frame	Brown	Metal	<0.03	Negative		No
596	1961 Level 2	Room 251	Door Frame	Brown	Metal	<0.03	Negative		No
597	1961 Level 2	Room 251	Door Frame	Brown	Metal	0.05	Negative		No
598	1961 Level 2	Room 251	Window Ledge	Tan	Concrete	<0.02	Negative		No
599	1961 Level 2	Room 251	Window Ledge	Tan	Concrete	0.02	Negative		No
600	1961 Level 2	Room 251	Window Ledge	Tan	Concrete	<0.02	Negative		No
601	1961 Level 2	Room 251	Window Lintel	Tan	Concrete	0.02	Negative		No
602	1961 Level 2	Room 251	Window Lintel	Tan	Concrete	0.03	Negative		No
603	1961 Level 2	Room 251	Window Lintel	Tan	Concrete	0.02	Negative		No
604		SRM 2573		Red		1.0			No
605		SRM 2573		Red		1.0			No
606		SRM 2573		Red		0.9			No

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Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 7, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
1		SRM 2573		Red		1.0			No
2		SRM 2573		Red		1.0			No
3		SRM 2573		Red		0.9			No
4	1949 Level 1	Central Supply	Wall	White	Drywall/Plaster	<0.02	Negative		No
5	1949 Level 1	Central Supply	Wall	White	Drywall/Plaster	0.04	Negative		No
6	1949 Level 1	Central Supply	Wall	White	Drywall/Plaster	0.02	Negative		No
7	1949 Level 1	Central Supply	Wall	White	Drywall/Plaster	0.16	Negative		No
8	1949 Level 1	Central Supply	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
9	1949 Level 1	Central Supply	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
10	1949 Level 1	Central Supply	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
11	1949 Level 1	Central Supply	Ceiling	White	Plaster	0.08	Negative		No
12	1949 Level 1	Central Supply	Ceiling	White	Plaster	0.07	Negative		No
13	1949 Level 1	Central Supply	Ceiling	White	Plaster	0.1	Negative		No
14	1949 Level 1	Central Supply	Door	Brown	Metal	<0.02	Negative		No
15	1949 Level 1	Central Supply	Door	Brown	Metal	<0.02	Negative		No
16	1949 Level 1	Central Supply	Door	Brown	Metal	<0.02	Negative		No
17	1949 Level 1	Central Supply	Door Frame	Brown	Metal	<0.02	Negative		No
18	1949 Level 1	Central Supply	Door Frame	Brown	Metal	0.18	Negative		No
19	1949 Level 1	Central Supply	Door Frame	Brown	Metal	0.25	Negative		No
20	1949 Level 1	Central Supply	Window Frame	Brown	Metal	0.02	Negative		No
21	1949 Level 1	Central Supply	Window Frame	Brown	Metal	0.03	Negative		No
22	1949 Level 1	Central Supply	Window Frame	Brown	Metal	<0.04	Negative		No
23	1949 Level 1	Central Supply	Support Column	White	Wood	<0.02	Negative		No
24	1949 Level 1	Central Supply	Support Column	White	Wood	<0.02	Negative		No
25	1949 Level 1	Central Supply	Support Column	White	Wood	<0.02	Negative		No
26	1949 Level 1	Central Supply	Pipe	White	Metal	0.18	Negative		No
27	1949 Level 1	Central Supply	Pipe	White	Metal	0.19	Negative		No
28	1949 Level 1	Central Supply	Pipe	White	Metal	0.21	Negative		No
29	1949 Level 1	Restroom	Ceiling	White	Plaster	<0.02	Negative		No
30	1949 Level 1	Restroom	Ceiling	White	Plaster	<0.02	Negative		No

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XRF: Niton XLP 300A SERIAL # 25752

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XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
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Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 7, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
31	1949 Level 1	Restroom	Ceiling	White	Plaster	<0.03	Negative		No
32	1949 Level 1	Restroom	Door	Brown	Wood	<0.02	Negative		No
33	1949 Level 1	Restroom	Door	Brown	Wood	<0.02	Negative		No
34	1949 Level 1	Restroom	Door	Brown	Wood	<0.02	Negative		No
35	1949 Level 1	Restroom	Door Frame	Brown	Metal	<0.02	Negative		No
36	1949 Level 1	Restroom	Door Frame	Brown	Metal	<0.03	Negative		No
37	1949 Level 1	Restroom	Door Frame	Brown	Metal	<0.03	Negative		No
38	1949 Level 1	East Hallway	Wall	White	Drywall	<0.02	Negative		No
39	1949 Level 1	East Hallway	Wall	White	Drywall	<0.02	Negative		No
40	1949 Level 1	East Hallway	Wall	White	Drywall	<0.02	Negative		No
41	1949 Level 1	East Hallway	Wall	White	Drywall	<0.02	Negative		No
42	1949 Level 1	East Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
43	1949 Level 1	East Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
44	1949 Level 1	East Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
45	1949 Level 1	East Hallway	Door	Brown	Wood	<0.02	Negative		No
46	1949 Level 1	East Hallway	Door	Brown	Wood	<0.02	Negative		No
47	1949 Level 1	East Hallway	Door	Brown	Wood	<0.02	Negative		No
48	1949 Level 1	East Hallway	Door Frame	Brown	Metal	0.02	Negative		No
49	1949 Level 1	East Hallway	Door Frame	Brown	Metal	<0.02	Negative		No
50	1949 Level 1	East Hallway	Door Frame	Brown	Metal	0.06	Negative		No
51	1949 Level 1	Elevator	Door	Tan	Metal	0.16	Negative		No
52	1949 Level 1	Elevator	Door	Tan	Metal	0.16	Negative		No
53	1949 Level 1	Elevator	Door	Tan	Metal	0.09	Negative		No
54	1949 Level 1	Elevator	Door Frame	Brown	Metal	0.04	Negative		No
55	1949 Level 1	Elevator	Door Frame	Brown	Metal	<0.02	Negative		No
56	1949 Level 1	Elevator	Door Frame	Brown	Metal	<0.02	Negative		No
57	1949 Level 1	Human Resources	Wall	White	Drywall	<0.02	Negative		No
58	1949 Level 1	Human Resources	Wall	White	Drywall	<0.02	Negative		No
59	1949 Level 1	Human Resources	Wall	White	Drywall	<0.02	Negative		No
60	1949 Level 1	Human Resources	Wall	White	Drywall	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

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ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 7, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
61	1949 Level 1	Human Resources	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
62	1949 Level 1	Human Resources	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
63	1949 Level 1	Human Resources	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
64	1949 Level 1	Human Resources	Ceiling	White	Plaster	<0.02	Negative		No
65	1949 Level 1	Human Resources	Ceiling	White	Plaster	<0.02	Negative		No
66	1949 Level 1	Human Resources	Ceiling	White	Plaster	<0.02	Negative		No
67	1949 Level 1	Human Resources	Door	Brown	Wood	0.21	Negative		No
68	1949 Level 1	Human Resources	Door	Brown	Wood	0.26	Negative		No
69	1949 Level 1	Human Resources	Door	Brown	Wood	0.12	Negative		No
70	1949 Level 1	Human Resources	Door Frame	Gray	Metal	0.02	Negative		No
71	1949 Level 1	Human Resources	Door Frame	Gray	Metal	0.02	Negative		No
72	1949 Level 1	Human Resources	Door Frame	Gray	Metal	0.4	Negative		No
73	1949 Level 1	Central Stairway	Wall	White	Concrete	0.04	Negative		No
74	1949 Level 1	Central Stairway	Wall	White	Concrete	<0.02	Negative		No
75	1949 Level 1	Central Stairway	Wall	White	Concrete	<0.02	Negative		No
76	1949 Level 1	Central Stairway	Wall	White	Concrete	<0.02	Negative		No
77	1949 Level 1	Central Stairway	Ceiling	White	Concrete	<0.02	Negative		No
78	1949 Level 1	Central Stairway	Ceiling	White	Concrete	<0.02	Negative		No
79	1949 Level 1	Central Stairway	Ceiling	White	Concrete	<0.02	Negative		No
80	1949 Level 1	Central Stairway	Hand Rail	Brown	Wood	<0.02	Negative		No
81	1949 Level 1	Central Stairway	Hand Rail	Brown	Wood	<0.02	Negative		No
82	1949 Level 1	Central Stairway	Hand Rail	Brown	Wood	<0.02	Negative		No
83	1949 Level 1	West Hallway	Wall	White	Concrete	<0.02	Negative		No
84	1949 Level 1	West Hallway	Wall	White	Concrete	<0.02	Negative		No
85	1949 Level 1	West Hallway	Wall	White	Concrete	<0.02	Negative		No
86	1949 Level 1	West Hallway	Wall	White	Concrete	<0.02	Negative		No
87	1949 Level 1	West Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
88	1949 Level 1	West Hallway	Floor	White	Vinyl Floor Tile	0.02	Negative		No
89	1949 Level 1	West Hallway	Floor	White	Vinyl Floor Tile	0.04	Negative		No
90	1949 Level 1	West Hallway	Ceiling	White	Plaster	0.02	Negative		No

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TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
91	1949 Level 1	West Hallway	Ceiling	White	Plaster	<0.03	Negative		No
92	1949 Level 1	West Hallway	Ceiling	White	Plaster	<0.03	Negative		No
93	1949 Level 1	West Hallway	Door	Brown	Metal	0.03	Negative		No
94	1949 Level 1	West Hallway	Door	Brown	Metal	0.02	Negative		No
95	1949 Level 1	West Hallway	Door	Brown	Metal	0.05	Negative		No
96	1949 Level 1	West Hallway	Door Frame	Brown	Metal	0.03	Negative		No
97	1949 Level 1	West Hallway	Door Frame	Brown	Metal	0.08	Negative		No
98	1949 Level 1	West Hallway	Door Frame	Brown	Metal	0.06	Negative		No
99	1949 Level 1	West Hallway	Window Frame	Brown	Metal	<0.02	Negative		No
100	1949 Level 1	West Hallway	Window Frame	Brown	Metal	<0.02	Negative		No
101	1949 Level 1	West Hallway	Window Frame	Brown	Metal	<0.02	Negative		No
102	1949 Level 1	Conference Room	Wall	Gray	Drywall	<0.02	Negative		No
103	1949 Level 1	Conference Room	Wall	Gray	Drywall	<0.02	Negative		No
104	1949 Level 1	Conference Room	Wall	Gray	Drywall	<0.02	Negative		No
105	1949 Level 1	Conference Room	Wall	Gray	Drywall	0.02	Negative		No
106	1949 Level 1	Conference Room	Floor	Gray	Carpet	0.03	Negative		No
107	1949 Level 1	Conference Room	Floor	Gray	Carpet	0.02	Negative		No
108	1949 Level 1	Conference Room	Floor	Gray	Carpet	0.03	Negative		No
109	1949 Level 1	Conference Room	Ceiling	Tan	Drywall	<0.02	Negative		No
110	1949 Level 1	Conference Room	Ceiling	Tan	Drywall	0.02	Negative		No
111	1949 Level 1	Conference Room	Ceiling	Tan	Drywall	<0.02	Negative		No
112	1949 Level 1	Conference Room	Door	Gray	Wood	<0.02	Negative		No
113	1949 Level 1	Conference Room	Door	Gray	Wood	0.03	Negative		No
114	1949 Level 1	Conference Room	Door	Gray	Wood	0.07	Negative		No
115	1949 Level 1	Conference Room	Door Frame	Gray	Metal	0.07	Negative		No
116	1949 Level 1	Conference Room	Door Frame	Gray	Metal	0.11	Negative		No
117	1949 Level 1	Conference Room	Door Frame	Gray	Metal	0.05	Negative		No
118	1949 Level 1	Conference Room	Support Column	Gray	Wood	<0.02	Negative		No
119	1949 Level 1	Conference Room	Support Column	Gray	Wood	<0.02	Negative		No
120	1949 Level 1	Conference Room	Support Column	Gray	Wood	<0.02	Negative		No

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121	1949 Level 1	Conference Room	Baseboard	White	Wood	<0.02	Negative		No
122	1949 Level 1	Conference Room	Baseboard	White	Wood	<0.02	Negative		No
123	1949 Level 1	Conference Room	Baseboard	White	Wood	<0.02	Negative		No
124	1949 Level 1	Conference Room	Chair Rail	White	Wood	<0.02	Negative		No
125	1949 Level 1	Conference Room	Chair Rail	White	Wood	<0.02	Negative		No
126	1949 Level 1	Conference Room	Chair Rail	White	Wood	<0.02	Negative		No
127	1949 Level 1	Patient Room	Wall	White	Drywall	<0.02	Negative		No
128	1949 Level 1	Patient Room	Wall	White	Drywall	<0.02	Negative		No
129	1949 Level 1	Patient Room	Wall	White	Drywall	<0.02	Negative		No
130	1949 Level 1	Patient Room	Wall	White	Drywall	<0.02	Negative		No
131	1949 Level 1	Patient Room	Floor	Gray	Carpet	0.15	Negative		No
132	1949 Level 1	Patient Room	Floor	Gray	Carpet	0.14	Negative		No
133	1949 Level 1	Patient Room	Floor	Gray	Carpet	0.15	Negative		No
134	1949 Level 1	Patient Room	Door	Brown	Wood	<0.02	Negative		No
135	1949 Level 1	Patient Room	Door	Brown	Wood	<0.02	Negative		No
136	1949 Level 1	Patient Room	Door	Brown	Wood	<0.02	Negative		No
137	1949 Level 1	Patient Room	Door Frame	Beige	Metal	0.02	Negative		No
138	1949 Level 1	Patient Room	Door Frame	Beige	Metal	0.11	Negative		No
139	1949 Level 1	Patient Room	Door Frame	Beige	Metal	0.04	Negative		No
140	1949 Level 1	Patient Room	Support Column	White	Drywall	<0.02	Negative		No
141	1949 Level 1	Patient Room	Support Column	White	Drywall	<0.02	Negative		No
142	1949 Level 1	Patient Room	Support Column	White	Drywall	<0.02	Negative		No
143	1949 Level 1	Nurse's Station	Wall	White	Drywall/Concrete	<0.02	Negative		No
144	1949 Level 1	Nurse's Station	Wall	White	Drywall/Concrete	<0.02	Negative		No
145	1949 Level 1	Nurse's Station	Wall	White	Drywall/Concrete	<0.02	Negative		No
146	1949 Level 1	Nurse's Station	Wall	White	Drywall/Concrete	<0.02	Negative		No
147	1949 Level 1	Nurse's Station	Floor	Gray	Carpet	<0.02	Negative		No
148	1949 Level 1	Nurse's Station	Floor	Gray	Carpet	<0.02	Negative		No
149	1949 Level 1	Nurse's Station	Floor	Gray	Carpet	<0.02	Negative		No
150	1949 Level 1	Nurse's Station	Door	Brown	Wood	0.08	Negative		No

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151	1949 Level 1	Nurse's Station	Door	Brown	Wood	<0.02	Negative		No
152	1949 Level 1	Nurse's Station	Door	Brown	Wood	<0.03	Negative		No
153	1949 Level 1	Nurse's Station	Door Frame	Pink	Metal	0.12	Negative		No
154	1949 Level 1	Nurse's Station	Door Frame	Pink	Metal	0.13	Negative		No
155	1949 Level 1	Nurse's Station	Door Frame	Pink	Metal	0.03	Negative		No
156	1949 Level 1	Nurse's Station	Cabinetry	Pink	Metal	0.27	Negative		No
157	1949 Level 1	Nurse's Station	Cabinetry	Pink	Metal	0.13	Negative		No
158	1949 Level 1	Nurse's Station	Cabinetry	Pink	Metal	0.14	Negative		No
159	1949 Level 1	Medical Records	Wall	White	Drywall	<0.02	Negative		No
160	1949 Level 1	Medical Records	Wall	White	Drywall	<0.03	Negative		No
161	1949 Level 1	Medical Records	Wall	White	Drywall	<0.03	Negative		No
162	1949 Level 1	Medical Records	Wall	White	Drywall	<0.02	Negative		No
163	1949 Level 1	Medical Records	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
164	1949 Level 1	Medical Records	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
165	1949 Level 1	Medical Records	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
166	1949 Level 1	Medical Records	Ceiling	White	Drywall	<0.02	Negative		No
167	1949 Level 1	Medical Records	Ceiling	White	Drywall	<0.02	Negative		No
168	1949 Level 1	Medical Records	Ceiling	White	Drywall	<0.02	Negative		No
169	1949 Level 1	Medical Records	Door	Brown	Wood	<0.02	Negative		No
170	1949 Level 1	Medical Records	Door	Brown	Wood	<0.02	Negative		No
171	1949 Level 1	Medical Records	Door	Brown	Wood	<0.02	Negative		No
172	1949 Level 1	Medical Records	Door Frame	Tan	Metal	<0.02	Negative		No
173	1949 Level 1	Medical Records	Door Frame	Tan	Metal	0.02	Negative		No
174	1949 Level 1	Medical Records	Door Frame	Tan	Metal	<0.03	Negative		No
175	1949 Level 1	Spiral Staircase	Stairs	White	Metal	0.1	Negative		No
176	1949 Level 1	Spiral Staircase	Stairs	White	Metal	0.23	Negative		No
177	1949 Level 1	Spiral Staircase	Stairs	White	Metal	0.12	Negative		No
178	1949 Level 1	Spiral Staircase	Stair Support	White	Metal	0.16	Negative		No
179	1949 Level 1	Spiral Staircase	Stair Support	White	Metal	0.03	Negative		No
180	1949 Level 1	Spiral Staircase	Stair Support	White	Metal	0.06	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 7, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
181	1949 Level 1	Spiral Staircase	Hand Rail	White	Metal	0.15	Negative		No
182	1949 Level 1	Spiral Staircase	Hand Rail	White	Metal	0.16	Negative		No
183	1949 Level 1	Spiral Staircase	Hand Rail	White	Metal	0.29	Negative		No
184	1949 Level 1	Spiral Staircase	Support Column	White	Metal	0.14	Negative		No
185	1949 Level 1	Spiral Staircase	Support Column	White	Metal	0.11	Negative		No
186	1949 Level 1	Spiral Staircase	Support Column	White	Metal	0.1	Negative		No
187	1949 Level 1	Mech Room	Duct Work	White	Metal	0.07	Negative		No
188	1949 Level 1	Mech Room	Duct Work	White	Metal	0.02	Negative		No
189	1949 Level 1	Mech Room	Duct Work	White	Metal	<0.02	Negative		No
190	1949 Level 1	Mech Room	Pipe	Orange	Canvas	0.12	Negative		No
191	1949 Level 1	Mech Room	Pipe	Orange	Canvas	0.07	Negative		No
192	1949 Level 1	Mech Room	Pipe	Orange	Canvas	0.02	Negative		No
193	1949 Level 1	Mech Room	Pipe	Yellow	Canvas	0.24	Negative		No
194	1949 Level 1	Mech Room	Pipe	Yellow	Canvas	0.1	Negative		No
195	1949 Level 1	Mech Room	Pipe	Yellow	Canvas	0.1	Negative		No
196	1949 Level 1	Mech Room	HVAC Unit	Gray	Metal	0.07	Negative		No
197	1949 Level 1	Mech Room	HVAC Unit	Gray	Metal	<0.02	Negative		No
198	1949 Level 1	Mech Room	HVAC Unit	Gray	Metal	<0.03	Negative		No
199	1949 Level 1	Mech Room	Pipe	Tan	Metal	<0.02	Negative		No
200	1949 Level 1	Mech Room	Pipe	Tan	Metal	<0.02	Negative		No
201	1949 Level 1	Mech Room	Pipe	Tan	Metal	<0.02	Negative		No
202	1949 Level 1	Mech Room	Pipe	Blue	Canvas	<0.02	Negative		No
203	1949 Level 1	Mech Room	Pipe	Blue	Canvas	<0.02	Negative		No
204	1949 Level 1	Mech Room	Pipe	Blue	Canvas	<0.02	Negative		No
205	1949 Level 1	Mech Room	Wall	Off-White	Concrete/Brick	0.1	Negative		No
206	1949 Level 1	Mech Room	Wall	Off-White	Concrete/Brick	0.12	Negative		No
207	1949 Level 1	Mech Room	Wall	Off-White	Concrete/Brick	<0.02	Negative		No
208	1949 Level 1	Mech Room	Wall	Off-White	Concrete/Brick	<0.02	Negative		No
209	1949 Level 1	Hospital Auxilary	Wall	White	Drywall	0.03	Negative		No
210	1949 Level 1	Hospital Auxilary	Wall	White	Drywall	<0.02	Negative		No

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211	1949 Level 1	Hospital Auxilary	Wall	White	Drywall	<0.02	Negative		No
212	1949 Level 1	Hospital Auxilary	Wall	White	Drywall	<0.03	Negative		No
213	1949 Level 1	Hospital Auxilary	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
214	1949 Level 1	Hospital Auxilary	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
215	1949 Level 1	Hospital Auxilary	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
216	1949 Level 1	Hospital Auxilary	Door	Blue	Wood	<0.02	Negative		No
217	1949 Level 1	Hospital Auxilary	Door	Blue	Wood	<0.02	Negative		No
218	1949 Level 1	Hospital Auxilary	Door	Blue	Wood	<0.02	Negative		No
219	1949 Level 1	Hospital Auxilary	Door Frame	Pink	Metal	<0.02	Negative		No
220	1949 Level 1	Hospital Auxilary	Door Frame	Pink	Metal	<0.02	Negative		No
221	1949 Level 1	Hospital Auxilary	Door Frame	Pink	Metal	<0.02	Negative		No
222	1949 Level 2	East Hallway	Wall	White	Drywall	<0.02	Negative		No
223	1949 Level 2	East Hallway	Wall	White	Drywall	<0.02	Negative		No
224	1949 Level 2	East Hallway	Wall	White	Drywall	<0.02	Negative		No
225	1949 Level 2	East Hallway	Wall	White	Drywall	<0.02	Negative		No
226	1949 Level 2	East Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
227	1949 Level 2	East Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
228	1949 Level 2	East Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
229	1949 Level 2	East Hallway	Door	Brown	Wood	<0.02	Negative		No
230	1949 Level 2	East Hallway	Door	Brown	Wood	<0.02	Negative		No
231	1949 Level 2	East Hallway	Door	Brown	Wood	<0.02	Negative		No
232	1949 Level 2	East Hallway	Door Frame	White	Metal	<0.02	Negative		No
233	1949 Level 2	East Hallway	Door Frame	White	Metal	<0.02	Negative		No
234	1949 Level 2	East Hallway	Door Frame	White	Metal	<0.02	Negative		No
235	1949 Level 2	Maintenance Office	Wall	Tan	Drywall	<0.02	Negative		No
236	1949 Level 2	Maintenance Office	Wall	Tan	Drywall	<0.04	Negative		No
237	1949 Level 2	Maintenance Office	Wall	Tan	Drywall	<0.02	Negative		No
238	1949 Level 2	Maintenance Office	Wall	Tan	Drywall	<0.02	Negative		No
239	1949 Level 2	Maintenance Office	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
240	1949 Level 2	Maintenance Office	Floor	White	Vinyl Floor Tile	<0.02	Negative		No

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241	1949 Level 2	Maintenance Office	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
242	1949 Level 2	Maintenance Office	Door	Brown	Wood	<0.02	Negative		No
243	1949 Level 2	Maintenance Office	Door	Brown	Wood	0.02	Negative		No
244	1949 Level 2	Maintenance Office	Door	Brown	Wood	<0.02	Negative		No
245	1949 Level 2	Maintenance Office	Door Frame	White	Metal	<0.02	Negative		No
246	1949 Level 2	Maintenance Office	Door Frame	White	Metal	<0.02	Negative		No
247	1949 Level 2	Maintenance Office	Door Frame	White	Metal	<0.02	Negative		No
248	1949 Level 2	Maintenance Office	Window Frame	Black	Metal	<0.02	Negative		No
249	1949 Level 2	Maintenance Office	Window Frame	Black	Metal	<0.02	Negative		No
250	1949 Level 2	Maintenance Office	Window Frame	Black	Metal	<0.02	Negative		No
251	1949 Level 2	Room 2	Wall	White	Drywall	<0.02	Negative		No
252	1949 Level 2	Room 2	Wall	White	Drywall	<0.02	Negative		No
253	1949 Level 2	Room 2	Wall	White	Drywall	0.03	Negative		No
254	1949 Level 2	Room 2	Wall	White	Drywall	0.04	Negative		No
255	1949 Level 2	Room 2	Floor	White	Vinyl Floor Tile	<0.03	Negative		No
256	1949 Level 2	Room 2	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
257	1949 Level 2	Room 2	Floor	White	Vinyl Floor Tile	0.02	Negative		No
258	1949 Level 2	Room 2	Door	Brown	Wood	<0.02	Negative		No
259	1949 Level 2	Room 2	Door	Brown	Wood	0.02	Negative		No
260	1949 Level 2	Room 2	Door	Brown	Wood	<0.03	Negative		No
261	1949 Level 2	Room 2	Door Frame	Off-White	Metal	<0.02	Negative		No
262	1949 Level 2	Room 2	Door Frame	Off-White	Metal	<0.02	Negative		No
263	1949 Level 2	Room 2	Door Frame	Off-White	Metal	<0.02	Negative		No
264	1949 Level 2	Room 2	Window Frame	Off-White	Metal	<0.02	Negative		No
265	1949 Level 2	Room 2	Window Frame	Off-White	Metal	<0.02	Negative		No
266	1949 Level 2	Room 2	Window Frame	Off-White	Metal	0.04	Negative		No
267	1949 Level 2	Restroom	Wall	Tan	Drywall	0.02	Negative		No
268	1949 Level 2	Restroom	Wall	Tan	Drywall	<0.02	Negative		No
269	1949 Level 2	Restroom	Wall	Tan	Drywall	0.03	Negative		No
270	1949 Level 2	Restroom	Wall	Tan	Drywall	0.02	Negative		No

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TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
271	1949 Level 2	Restroom	Ceiling	Tan	Drywall	0.02	Negative		No
272	1949 Level 2	Restroom	Ceiling	Tan	Drywall	<0.03	Negative		No
273	1949 Level 2	Restroom	Ceiling	Tan	Drywall	<0.02	Negative		No
274	1949 Level 2	Restroom	Door	Brown	Wood	<0.02	Negative		No
275	1949 Level 2	Restroom	Door	Brown	Wood	<0.02	Negative		No
276	1949 Level 2	Restroom	Door	Brown	Wood	<0.02	Negative		No
277	1949 Level 2	Restroom	Door Frame	Brown	Metal	<0.02	Negative		No
278	1949 Level 2	Restroom	Door Frame	Brown	Metal	<0.02	Negative		No
279	1949 Level 2	Restroom	Door Frame	Brown	Metal	<0.02	Negative		No
280	1949 Level 2	Mech Room 4	Wall	Tan	Drywall	<0.02	Negative		No
281	1949 Level 2	Mech Room 4	Wall	Tan	Drywall	<0.02	Negative		No
282	1949 Level 2	Mech Room 4	Wall	Tan	Drywall	<0.02	Negative		No
283	1949 Level 2	Mech Room 4	Wall	Tan	Drywall	<0.02	Negative		No
284	1949 Level 2	Mech Room 4	Ceiling	Tan	Drywall	0.02	Negative		No
285	1949 Level 2	Mech Room 4	Ceiling	Tan	Drywall	<0.02	Negative		No
286	1949 Level 2	Mech Room 4	Ceiling	Tan	Drywall	<0.02	Negative		No
287	1949 Level 2	Mech Room 4	Door	Brown	Wood	<0.02	Negative		No
288	1949 Level 2	Mech Room 4	Door	Brown	Wood	<0.02	Negative		No
289	1949 Level 2	Mech Room 4	Door	Brown	Wood	<0.03	Negative		No
290	1949 Level 2	Mech Room 4	Door Frame	Off-White	Metal	<0.02	Negative		No
291	1949 Level 2	Mech Room 4	Door Frame	Off-White	Metal	<0.03	Negative		No
292	1949 Level 2	Mech Room 4	Door Frame	Off-White	Metal	<0.02	Negative		No
293	1949 Level 2	Mech Room 4	Pipe	Yellow	Canvas	<0.02	Negative		No
294	1949 Level 2	Mech Room 4	Pipe	Yellow	Canvas	<0.02	Negative		No
295	1949 Level 2	Mech Room 4	Pipe	Yellow	Canvas	<0.02	Negative		No
296	1949 Level 2	Mech Room 4	Air Handling Unit	Gray	Metal	<0.02	Negative		No
297	1949 Level 2	Mech Room 4	Air Handling Unit	Gray	Metal	0.02	Negative		No
298	1949 Level 2	Mech Room 4	Air Handling Unit	Gray	Metal	0.03	Negative		No
299	1949 Level 2	Room 3	Wall	Off-White	Drywall	<0.02	Negative		No
300	1949 Level 2	Room 3	Wall	Off-White	Drywall	<0.02	Negative		No

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TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
301	1949 Level 2	Room 3	Wall	Off-White	Drywall	<0.02	Negative		No
302	1949 Level 2	Room 3	Wall	Off-White	Drywall	<0.02	Negative		No
303	1949 Level 2	Room 3	Floor	Off-White	Vinyl Floor Tile	0.02	Negative		No
304	1949 Level 2	Room 3	Floor	Off-White	Vinyl Floor Tile	0.05	Negative		No
305	1949 Level 2	Room 3	Floor	Off-White	Vinyl Floor Tile	0.03	Negative		No
306	1949 Level 2	Room 3	Ceiling	White	Drywall	0.04	Negative		No
307	1949 Level 2	Room 3	Ceiling	White	Drywall	<0.02	Negative		No
308	1949 Level 2	Room 3	Ceiling	White	Drywall	<0.02	Negative		No
309	1949 Level 2	Room 3	Door	Brown	Wood	<0.02	Negative		No
310	1949 Level 2	Room 3	Door	Brown	Wood	<0.02	Negative		No
311	1949 Level 2	Room 3	Door	Brown	Wood	<0.02	Negative		No
312	1949 Level 2	Room 3	Door Frame	Gray	Metal	<0.02	Negative		No
313	1949 Level 2	Room 3	Door Frame	Gray	Metal	0.02	Negative		No
314	1949 Level 2	Room 3	Door Frame	Gray	Metal	<0.02	Negative		No
315	1949 Level 2	Room 3	Cabinetry	Gray	Metal	0.19	Negative		No
316	1949 Level 2	Room 3	Cabinetry	Gray	Metal	0.17	Negative		No
317	1949 Level 2	Room 3	Cabinetry	Gray	Metal	0.17	Negative		No
318	1949 Level 2	Staff Lounge	Wall	Tan	Drywall	<0.02	Negative		No
319	1949 Level 2	Staff Lounge	Wall	Tan	Drywall	<0.02	Negative		No
320	1949 Level 2	Staff Lounge	Wall	Tan	Drywall	<0.02	Negative		No
321	1949 Level 2	Staff Lounge	Wall	Tan	Drywall	<0.02	Negative		No
322	1949 Level 2	Staff Lounge	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
323	1949 Level 2	Staff Lounge	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
324	1949 Level 2	Staff Lounge	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
325	1949 Level 2	Staff Lounge	Ceiling	White	Drywall	<0.02	Negative		No
326	1949 Level 2	Staff Lounge	Ceiling	White	Drywall	<0.02	Negative		No
327	1949 Level 2	Staff Lounge	Ceiling	White	Drywall	<0.02	Negative		No
328	1949 Level 2	Staff Lounge	Door	Brown	Wood	<0.02	Negative		No
329	1949 Level 2	Staff Lounge	Door	Brown	Wood	<0.03	Negative		No
330	1949 Level 2	Staff Lounge	Door	Brown	Wood	<0.02	Negative		No

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331	1949 Level 2	Staff Lounge	Door Frame	Black	Metal	<0.02	Negative		No
332	1949 Level 2	Staff Lounge	Door Frame	Black	Metal	<0.02	Negative		No
333	1949 Level 2	Staff Lounge	Door Frame	Black	Metal	<0.02	Negative		No
334	1949 Level 2	Staff Lounge	Window Frame	Black	Metal	<0.02	Negative		No
335	1949 Level 2	Staff Lounge	Window Frame	Black	Metal	<0.02	Negative		No
336	1949 Level 2	Staff Lounge	Window Frame	Black	Metal	<0.02	Negative		No
337	1949 Level 2	Staff Lounge	Cabinetry	Gray	Metal	<0.02	Negative		No
338	1949 Level 2	Staff Lounge	Cabinetry	Gray	Metal	<0.02	Negative		No
339	1949 Level 2	Staff Lounge	Cabinetry	Gray	Metal	<0.03	Negative		No
340	1949 Level 2	Elevator	Door	Gray	Metal	0.11	Negative		No
341	1949 Level 2	Elevator	Door	Gray	Metal	0.12	Negative		No
342	1949 Level 2	Elevator	Door	Gray	Metal	0.15	Negative		No
343	1949 Level 2	Elevator	Door Frame	Gray	Metal	0.14	Negative		No
344	1949 Level 2	Elevator	Door Frame	Gray	Metal	0.04	Negative		No
345	1949 Level 2	Elevator	Door Frame	Gray	Metal	0.1	Negative		No
346		SRM 2573		Red		1.0	Negative		No
347		SRM 2573		Red		1.0	Negative		No
348		SRM 2573		Red		1.0	Negative		No
349		SRM 2573		Red		1.1	Negative		No
350		SRM 2573		Red		1.1	Negative		No
351		SRM 2573		Red		1.0	Negative		No
352	1949 Level 2	West Hallway	Wall	Off-White	Drywall	<0.02	Negative		No
353	1949 Level 2	West Hallway	Wall	Off-White	Drywall	<0.02	Negative		No
354	1949 Level 2	West Hallway	Wall	Off-White	Drywall	<0.03	Negative		No
355	1949 Level 2	West Hallway	Wall	Off-White	Drywall	<0.02	Negative		No
356	1949 Level 2	West Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
357	1949 Level 2	West Hallway	Floor	White	Vinyl Floor Tile	0.04	Negative		No
358	1949 Level 2	West Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
359	1949 Level 2	West Hallway	Door	Brown	Wood	<0.02	Negative		No
360	1949 Level 2	West Hallway	Door	Brown	Wood	<0.02	Negative		No

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361	1949 Level 2	West Hallway	Door	Brown	Wood	<0.02	Negative		No
362	1949 Level 2	West Hallway	Door Frame	Gray	Metal	0.03	Negative		No
363	1949 Level 2	West Hallway	Door Frame	Gray	Metal	0.05	Negative		No
364	1949 Level 2	West Hallway	Door Frame	Gray	Metal	0.03	Negative		No
365	1949 Level 2	Mech Room 3	Wall	Tan	Drywall	<0.02	Negative		No
366	1949 Level 2	Mech Room 3	Wall	Tan	Drywall	<0.02	Negative		No
367	1949 Level 2	Mech Room 3	Wall	Tan	Drywall	<0.02	Negative		No
368	1949 Level 2	Mech Room 3	Wall	Tan	Drywall	<0.02	Negative		No
369	1949 Level 2	Mech Room 3	Floor	Gray	Concrete	<0.02	Negative		No
370	1949 Level 2	Mech Room 3	Floor	Gray	Concrete	<0.02	Negative		No
371	1949 Level 2	Mech Room 3	Floor	Gray	Concrete	<0.03	Negative		No
372	1949 Level 2	Mech Room 3	Ceiling	White	Drywall	<0.02	Negative		No
373	1949 Level 2	Mech Room 3	Ceiling	White	Drywall	<0.02	Negative		No
374	1949 Level 2	Mech Room 3	Ceiling	White	Drywall	<0.02	Negative		No
375	1949 Level 2	Mech Room 3	Door	Brown	Wood	<0.02	Negative		No
376	1949 Level 2	Mech Room 3	Door	Brown	Wood	<0.02	Negative		No
377	1949 Level 2	Mech Room 3	Door	Brown	Wood	<0.02	Negative		No
378	1949 Level 2	Mech Room 3	Door Frame	Black	Metal	<0.03	Negative		No
379	1949 Level 2	Mech Room 3	Door Frame	Black	Metal	0.06	Negative		No
380	1949 Level 2	Mech Room 3	Door Frame	Black	Metal	0.07	Negative		No
381	1949 Level 2	Mech Room 3	Pipe	B/Y/Blue	Canvas	0.12	Negative		No
382	1949 Level 2	Mech Room 3	Pipe	B/Y/Blue	Canvas	<0.02	Negative		No
383	1949 Level 2	Mech Room 3	Pipe	B/Y/Blue	Canvas	<0.02	Negative		No
384	1949 Level 2	Mech Room 3	Air Handling Unit	Gray	Metal	<0.02	Negative		No
385	1949 Level 2	Mech Room 3	Air Handling Unit	Gray	Metal	<0.02	Negative		No
386	1949 Level 2	Mech Room 3	Air Handling Unit	Gray	Metal	<0.02	Negative		No
387	1949 Level 2	Critical Care	Wall	Tan	Drywall	<0.02	Negative		No
388	1949 Level 2	Critical Care	Wall	Tan	Drywall	<0.02	Negative		No
389	1949 Level 2	Critical Care	Wall	Tan	Drywall	<0.02	Negative		No
390	1949 Level 2	Critical Care	Wall	Tan	Drywall	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 7, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
391	1949 Level 2	Critical Care	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
392	1949 Level 2	Critical Care	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
393	1949 Level 2	Critical Care	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
394	1949 Level 2	Critical Care	Door	Brown	Wood	<0.02	Negative		No
395	1949 Level 2	Critical Care	Door	Brown	Wood	<0.03	Negative		No
396	1949 Level 2	Critical Care	Door	Brown	Wood	<0.02	Negative		No
397	1949 Level 2	Critical Care	Door Frame	Tan	Metal	<0.02	Negative		No
398	1949 Level 2	Critical Care	Door Frame	Tan	Metal	0.13	Negative		No
399	1949 Level 2	Critical Care	Door Frame	Tan	Metal	0.09	Negative		No
400	1949 Level 2	Critical Care	Support Column	Brown	Wood	0.04	Negative		No
401	1949 Level 2	Critical Care	Support Column	Brown	Wood	<0.02	Negative		No
402	1949 Level 2	Critical Care	Support Column	Brown	Wood	<0.02	Negative		No
403	1949 Level 2	Critical Care 2	Wall	Tan	Drywall	<0.02	Negative		No
404	1949 Level 2	Critical Care 2	Wall	Tan	Drywall	<0.02	Negative		No
405	1949 Level 2	Critical Care 2	Wall	Tan	Drywall	<0.02	Negative		No
406	1949 Level 2	Critical Care 2	Wall	Tan	Drywall	<0.02	Negative		No
407	1949 Level 2	Critical Care 2	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
408	1949 Level 2	Critical Care 2	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
409	1949 Level 2	Critical Care 2	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
410	1949 Level 2	Critical Care 2	Ceiling	White	Ceiling Tile	<0.02	Negative		No
411	1949 Level 2	Critical Care 2	Ceiling	White	Ceiling Tile	<0.02	Negative		No
412	1949 Level 2	Critical Care 2	Ceiling	White	Ceiling Tile	<0.02	Negative		No
413	1949 Level 2	Critical Care 2	Window Frame	Pink	Metal	0.02	Negative		No
414	1949 Level 2	Critical Care 2	Window Frame	Pink	Metal	0.05	Negative		No
415	1949 Level 2	Critical Care 2	Window Frame	Pink	Metal	<0.02	Negative		No
416	1949 Level 2	Observation	Wall	Tan	Drywall	<0.02	Negative		No
417	1949 Level 2	Observation	Wall	Tan	Drywall	0.03	Negative		No
418	1949 Level 2	Observation	Wall	Tan	Drywall	<0.05	Negative		No
419	1949 Level 2	Observation	Wall	Tan	Drywall	<0.02	Negative		No
420	1949 Level 2	Observation	Floor	White	Vinyl Floor Tile	<0.02	Negative		No

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421	1949 Level 2	Observation	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
422	1949 Level 2	Observation	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
423	1949 Level 2	Observation	Ceiling	White	Ceiling Tile	<0.02	Negative		No
424	1949 Level 2	Observation	Ceiling	White	Ceiling Tile	<0.02	Negative		No
425	1949 Level 2	Observation	Ceiling	White	Ceiling Tile	<0.02	Negative		No
426	1949 Level 2	Restroom	Wall	Tan	Drywall	<0.02	Negative		No
427	1949 Level 2	Restroom	Wall	Tan	Drywall	0.02	Negative		No
428	1949 Level 2	Restroom	Wall	Tan	Drywall	<0.02	Negative		No
429	1949 Level 2	Restroom	Wall	Tan	Drywall	<0.02	Negative		No
430	1949 Level 2	Restroom	Ceiling	White	Drywall	0.02	Negative		No
431	1949 Level 2	Restroom	Ceiling	White	Drywall	<0.02	Negative		No
432	1949 Level 2	Restroom	Ceiling	White	Drywall	<0.02	Negative		No
433	1949 Level 2	Restroom	Door	Brown	Wood	<0.03	Negative		No
434	1949 Level 2	Restroom	Door	Brown	Wood	<0.02	Negative		No
435	1949 Level 2	Restroom	Door	Brown	Wood	<0.02	Negative		No
436	1949 Level 2	Restroom	Door Frame	Pink	Metal	<0.02	Negative		No
437	1949 Level 2	Restroom	Door Frame	Pink	Metal	<0.02	Negative		No
438	1949 Level 2	Restroom	Door Frame	Pink	Metal	0.02	Negative		No
439	1949 Level 2	North Hallway	Wall	Tan	Drywall	0.02	Negative		No
440	1949 Level 2	North Hallway	Wall	Tan	Drywall	0.02	Negative		No
441	1949 Level 2	North Hallway	Wall	Tan	Drywall	<0.02	Negative		No
442	1949 Level 2	North Hallway	Wall	Tan	Drywall	<0.02	Negative		No
443	1949 Level 2	North Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
444	1949 Level 2	North Hallway	Floor	White	Vinyl Floor Tile	0.02	Negative		No
445	1949 Level 2	North Hallway	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
446	1949 Level 2	North Hallway	Door	Brown	Wood	<0.02	Negative		No
447	1949 Level 2	North Hallway	Door	Brown	Wood	<0.02	Negative		No
448	1949 Level 2	North Hallway	Door	Brown	Wood	<0.02	Negative		No
449	1949 Level 2	North Hallway	Door Frame	Brown	Metal	<0.02	Negative		No
450	1949 Level 2	North Hallway	Door Frame	Brown	Metal	<0.02	Negative		No

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451	1949 Level 2	North Hallway	Door Frame	Brown	Metal	<0.02	Negative		No
452	1949 Level 2	Room 270	Wall	Tan/Orange	Drywall	0.02	Negative		No
453	1949 Level 2	Room 270	Wall	Tan/Orange	Drywall	<0.04	Negative		No
454	1949 Level 2	Room 270	Wall	Tan/Orange	Drywall	<0.02	Negative		No
455	1949 Level 2	Room 270	Wall	Tan/Orange	Drywall	<0.02	Negative		No
456	1949 Level 2	Room 270	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
457	1949 Level 2	Room 270	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
458	1949 Level 2	Room 270	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
459	1949 Level 2	Room 270	Ceiling	White	Ceiling Tile	<0.02	Negative		No
460	1949 Level 2	Room 270	Ceiling	White	Ceiling Tile	<0.02	Negative		No
461	1949 Level 2	Room 270	Ceiling	White	Ceiling Tile	<0.02	Negative		No
462	1949 Level 2	Room 270	Door	Brown	Wood	<0.02	Negative		No
463	1949 Level 2	Room 270	Door	Brown	Wood	<0.02	Negative		No
464	1949 Level 2	Room 270	Door	Brown	Wood	<0.02	Negative		No
465	1949 Level 2	Room 270	Door Frame	Brown	Metal	<0.02	Negative		No
466	1949 Level 2	Room 270	Door Frame	Brown	Metal	<0.02	Negative		No
467	1949 Level 2	Room 270	Door Frame	Brown	Metal	<0.02	Negative		No
468	1949 Level 2	Room 270	Fan Coil	Brown	Metal	<0.02	Negative		No
469	1949 Level 2	Room 270	Fan Coil	Brown	Metal	<0.02	Negative		No
470	1949 Level 2	Room 270	Fan Coil	Brown	Metal	<0.02	Negative		No
471	1949 Level 2	Mech Room 2	Wall	Off-White	Drywall	<0.02	Negative		No
472	1949 Level 2	Mech Room 2	Wall	Off-White	Drywall	<0.02	Negative		No
473	1949 Level 2	Mech Room 2	Wall	Off-White	Drywall	<0.02	Negative		No
474	1949 Level 2	Mech Room 2	Wall	Off-White	Drywall	<0.02	Negative		No
475	1949 Level 2	Mech Room 2	Ceiling	Off-White	Plaster	<0.02	Negative		No
476	1949 Level 2	Mech Room 2	Ceiling	Off-White	Plaster	<0.02	Negative		No
477	1949 Level 2	Mech Room 2	Ceiling	Off-White	Plaster	<0.02	Negative		No
478	1949 Level 2	Mech Room 2	Pipe	O/Blue/Y	Canvas	<0.02	Negative		No
479	1949 Level 2	Mech Room 2	Pipe	O/Blue/Y	Canvas	<0.02	Negative		No
480	1949 Level 2	Mech Room 2	Pipe	O/Blue/Y	Canvas	<0.02	Negative		No

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481	1949 Level 2	Mech Room 2	Air Handling Unit	Off-White	Metal	<0.02	Negative		No
482	1949 Level 2	Mech Room 2	Air Handling Unit	Off-White	Metal	<0.02	Negative		No
483	1949 Level 2	Mech Room 2	Air Handling Unit	Off-White	Metal	<0.02	Negative		No
484	1949/1972 Level 2	Family Room	Wall	Y/Burgandy	Drywall	<0.02	Negative		No
485	1949/1972 Level 2	Family Room	Wall	Y/Burgandy	Drywall	<0.02	Negative		No
486	1949/1972 Level 2	Family Room	Wall	Y/Burgandy	Drywall	<0.02	Negative		No
487	1949/1972 Level 2	Family Room	Wall	Y/Burgandy	Drywall	<0.02	Negative		No
488	1949/1972 Level 2	Family Room	Floor	Tan	Carpet	<0.02	Negative		No
489	1949/1972 Level 2	Family Room	Floor	Tan	Carpet	<0.02	Negative		No
490	1949/1972 Level 2	Family Room	Floor	Tan	Carpet	<0.02	Negative		No
491	1949/1972 Level 2	Family Room	Door	Brown	Wood	<0.02	Negative		No
492	1949/1972 Level 2	Family Room	Door	Brown	Wood	<0.02	Negative		No
493	1949/1972 Level 2	Family Room	Door	Brown	Wood	<0.02	Negative		No
494	1949/1972 Level 2	Family Room	Door Frame	Off-White	Metal	<0.02	Negative		No
495	1949/1972 Level 2	Family Room	Door Frame	Off-White	Metal	<0.02	Negative		No
496	1949/1972 Level 2	Family Room	Door Frame	Off-White	Metal	<0.02	Negative		No
497	1949/1972 Level 2	Room 276	Wall	Tan/Orange	Drywall	0.06	Negative		No
498	1949/1972 Level 2	Room 276	Wall	Tan/Orange	Drywall	0.04	Negative		No
499	1949/1972 Level 2	Room 276	Wall	Tan/Orange	Drywall	0.03	Negative		No
500	1949/1972 Level 2	Room 276	Wall	Tan/Orange	Drywall	<0.02	Negative		No
501	1949/1972 Level 2	Room 276	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
502	1949/1972 Level 2	Room 276	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
503	1949/1972 Level 2	Room 276	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
504	1949/1972 Level 2	Room 276	Ceiling	White	Ceiling Tile	<0.02	Negative		No
505	1949/1972 Level 2	Room 276	Ceiling	White	Ceiling Tile	<0.02	Negative		No
506	1949/1972 Level 2	Room 276	Ceiling	White	Ceiling Tile	<0.02	Negative		No
507	1949/1972 Level 2	Room 276	Fan Coil	Brown	Metal	<0.02	Negative		No
508	1949/1972 Level 2	Room 276	Fan Coil	Brown	Metal	<0.02	Negative		No
509	1949/1972 Level 2	Room 276	Fan Coil	Brown	Metal	<0.02	Negative		No
510	1972/1987 Level 2	CT Scan	Wall	W/Pink	Drywall	0.3	Negative		No

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511	1972/1987 Level 2	CT Scan	Wall	W/Pink	Drywall	0.2	Negative		No
512	1972/1987 Level 2	CT Scan	Wall	W/Pink	Drywall	<0.02	Negative		No
513	1972/1987 Level 2	CT Scan	Wall	W/Pink	Drywall	<0.02	Negative		No
514	1972/1987 Level 2	CT Scan	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
515	1972/1987 Level 2	CT Scan	Floor	White	Vinyl Floor Tile	0.03	Negative		No
516	1972/1987 Level 2	CT Scan	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
517	1972/1987 Level 2	CT Scan	Window Frame	Pink	Metal	<0.02	Negative		No
518	1972/1987 Level 2	CT Scan	Window Frame	Pink	Metal	<0.02	Negative		No
519	1972/1987 Level 2	CT Scan	Window Frame	Pink	Metal	<0.02	Negative		No
520	1972/1987 Level 2	CT Scan Operator Rm	Wall	W/Pink	Drywall	<0.02	Negative		No
521	1972/1987 Level 2	CT Scan Operator Rm	Wall	W/Pink	Drywall	<0.02	Negative		No
522	1972/1987 Level 2	CT Scan Operator Rm	Wall	W/Pink	Drywall	<0.02	Negative		No
523	1972/1987 Level 2	CT Scan Operator Rm	Wall	W/Pink	Drywall	<0.02	Negative		No
524	1972/1987 Level 2	CT Scan Operator Rm	Door	Brown	Wood	<0.02	Negative		No
525	1972/1987 Level 2	CT Scan Operator Rm	Door	Brown	Wood	<0.02	Negative		No
526	1972/1987 Level 2	CT Scan Operator Rm	Door	Brown	Wood	<0.02	Negative		No
527	1972/1987 Level 2	CT Scan Operator Rm	Door Frame	Off-White	Metal	0.02	Negative		No
528	1972/1987 Level 2	CT Scan Operator Rm	Door Frame	Off-White	Metal	<0.02	Negative		No
529	1972/1987 Level 2	CT Scan Operator Rm	Door Frame	Off-White	Metal	<0.02	Negative		No
530	1972/1987 Level 2	CT Scan Operator Rm	Door Frame	Off-White	Metal	0.27	Negative		No
531	1972/1987 Level 2	Nuclear Medicine	Wall	W/Pink	Drywall	<0.02	Negative		No
532	1972/1987 Level 2	Nuclear Medicine	Wall	W/Pink	Drywall	<0.02	Negative		No
533	1972/1987 Level 2	Nuclear Medicine	Wall	W/Pink	Drywall	<0.02	Negative		No
534	1972/1987 Level 2	Nuclear Medicine	Wall	W/Pink	Drywall	<0.02	Negative		No

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535	1972/1987 Level 2	Nuclear Medicine	Wall	W/Pink	Drywall	<0.02	Negative		No
536	1972/1987 Level 2	Nuclear Med Op Rm	Wall	W/Pink	Drywall	<0.02	Negative		No
537	1972/1987 Level 2	Nuclear Med Op Rm	Wall	W/Pink	Drywall	<0.02	Negative		No
538	1972/1987 Level 2	Nuclear Med Op Rm	Wall	W/Pink	Drywall	<0.02	Negative		No
539	1972/1987 Level 2	Nuclear Med Op Rm	Wall	W/Pink	Drywall	<0.02	Negative		No
540	1972/1987 Level 2	Cardio Rehab	Wall	Off-White	Drywall	<0.02	Negative		No
541	1972/1987 Level 2	Cardio Rehab	Wall	Off-White	Drywall	<0.02	Negative		No
542	1972/1987 Level 2	Cardio Rehab	Wall	Off-White	Drywall	<0.02	Negative		No
543	1972/1987 Level 2	Cardio Rehab	Wall	Off-White	Drywall	<0.02	Negative		No
544	1972/1987 Level 2	Cardio Rehab	Floor	Gray	Carpet	<0.02	Negative		No
545	1972/1987 Level 2	Cardio Rehab	Floor	Gray	Carpet	<0.02	Negative		No
546	1972/1987 Level 2	Cardio Rehab	Floor	Gray	Carpet	0.02	Negative		No
547	1972/1987 Level 2	Cardio Rehab	Door	Brown	Wood	<0.02	Negative		No
548	1972/1987 Level 2	Cardio Rehab	Door	Brown	Wood	<0.02	Negative		No
549	1972/1987 Level 2	Cardio Rehab	Door	Brown	Wood	<0.02	Negative		No
550	1972/1987 Level 2	Cardio Rehab	Door Frame	Off-White	Metal	<0.02	Negative		No
551	1972/1987 Level 2	Cardio Rehab	Door Frame	Off-White	Metal	<0.02	Negative		No
552	1972/1987 Level 2	Cardio Rehab	Door Frame	Off-White	Metal	0.05	Negative		No
553	1972/1987 Level 2	Cardio Rehab	Window Frame	Pink	Metal	0.05	Negative		No
554	1972/1987 Level 2	Cardio Rehab	Window Frame	Pink	Metal	0.03	Negative		No
555	1972/1987 Level 2	Cardio Rehab	Window Frame	Pink	Metal	0.05	Negative		No
556	1972/1987 Level 2	Physical Therapy	Wall	W/Pink	Drywall	<0.02	Negative		No
557	1972/1987 Level 2	Physical Therapy	Wall	W/Pink	Drywall	0.02	Negative		No
558	1972/1987 Level 2	Physical Therapy	Wall	W/Pink	Drywall	<0.02	Negative		No
559	1972/1987 Level 2	Physical Therapy	Wall	W/Pink	Drywall	0.02	Negative		No
560	1972/1987 Level 2	Physical Therapy	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
561	1972/1987 Level 2	Physical Therapy	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
562	1972/1987 Level 2	Physical Therapy	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
563	1972/1987 Level 2	Physical Therapy	Door	Brown	Wood	<0.02	Negative		No
564	1972/1987 Level 2	Physical Therapy	Door	Brown	Wood	<0.02	Negative		No

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565	1972/1987 Level 2	Physical Therapy	Door	Brown	Wood	<0.02	Negative		No
566	1972/1987 Level 2	Physical Therapy	Door Frame	Off-White	Metal	<0.02	Negative		No
567	1972/1987 Level 2	Physical Therapy	Door Frame	Off-White	Metal	<0.02	Negative		No
568	1972/1987 Level 2	Physical Therapy	Door Frame	Off-White	Metal	0.03	Negative		No
569	1972/1987 Level 2	Restroom	Wall	W/Pink	Drywall	<0.03	Negative		No
570	1972/1987 Level 2	Restroom	Wall	W/Pink	Drywall	<0.02	Negative		No
571	1972/1987 Level 2	Restroom	Wall	W/Pink	Drywall	0.02	Negative		No
572	1972/1987 Level 2	Restroom	Wall	W/Pink	Drywall	<0.02	Negative		No
573	1972/1987 Level 2	Restroom	Ceiling	White	Drywall	<0.02	Negative		No
574	1972/1987 Level 2	Restroom	Ceiling	White	Drywall	<0.03	Negative		No
575	1972/1987 Level 2	Restroom	Ceiling	White	Drywall	<0.02	Negative		No
576	1972/1987 Level 2	U Shaped Hallway	Wall	Off-White	Drywall	<0.02	Negative		No
577	1972/1987 Level 2	U Shaped Hallway	Wall	Off-White	Drywall	<0.02	Negative		No
578	1972/1987 Level 2	U Shaped Hallway	Wall	Off-White	Drywall	<0.02	Negative		No
579	1972/1987 Level 2	U Shaped Hallway	Wall	Off-White	Drywall	<0.02	Negative		No
580	1972/1987 Level 2	U Shaped Hallway	Floor	Gray	Carpet	<0.02	Negative		No
581	1972/1987 Level 2	U Shaped Hallway	Floor	Gray	Carpet	<0.02	Negative		No
582	1972/1987 Level 2	U Shaped Hallway	Floor	Gray	Carpet	<0.02	Negative		No
583	1972/1987 Level 2	U Shaped Hallway	Door	White	Metal	<0.03	Negative		No
584	1972/1987 Level 2	U Shaped Hallway	Door	White	Metal	<0.03	Negative		No
585	1972/1987 Level 2	U Shaped Hallway	Door	White	Metal	0.05	Negative		No
586	1972/1987 Level 2	U Shaped Hallway	Door Frame	Off-White	Metal	0.02	Negative		No
587	1972/1987 Level 2	U Shaped Hallway	Door Frame	Off-White	Metal	0.02	Negative		No
588	1972/1987 Level 2	U Shaped Hallway	Door Frame	Off-White	Metal	<0.02	Negative		No
589	1972/1987 Level 2	U Shaped Hallway	Window Frame	Pink	Metal	0.03	Negative		No
590	1972/1987 Level 2	U Shaped Hallway	Window Frame	Pink	Metal	0.02	Negative		No
591	1972/1987 Level 2	U Shaped Hallway	Window Frame	Pink	Metal	<0.02	Negative		No
592	1972/1987 Level 2	X-Ray #2	Wall	Pink	Drywall	0.11	Negative		No
593	1972/1987 Level 2	X-Ray #2	Wall	Pink	Drywall	<0.02	Negative		No
594	1972/1987 Level 2	X-Ray #2	Wall	Pink	Drywall	<0.02	Negative		No
595	1972/1987 Level 2	X-Ray #2	Wall	Pink	Drywall	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

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EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 7, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
596	1972/1987 Level 2	X-Ray #2	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
597	1972/1987 Level 2	X-Ray #2	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
598	1972/1987 Level 2	X-Ray #2	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
599	1972/1987 Level 2	X-Ray #2	Door	Brown	Wood	10.1	Positive	3 @ (3x7)	No
600	1972/1987 Level 2	X-Ray #2	Door	Brown	Wood	10.1	Positive		No
601	1972/1987 Level 2	X-Ray #2	Door	Brown	Wood	10.1	Positive		No
602	1972/1987 Level 2	X-Ray #2	Door Frame	Off-White	Metal	0.02	Negative		No
603	1972/1987 Level 2	X-Ray #2	Door Frame	Off-White	Metal	<0.05	Negative		No
604	1972/1987 Level 2	X-Ray #2	Door Frame	Off-White	Metal	<0.04	Negative		No
605	1972/1987 Level 2	Dark Room	Wall	Pink	Drywall	<0.02	Negative		No
606	1972/1987 Level 2	Dark Room	Wall	Pink	Drywall	<0.02	Negative		No
607	1972/1987 Level 2	Dark Room	Wall	Pink	Drywall	<0.02	Negative		No
608	1972/1987 Level 2	Dark Room	Wall	Pink	Drywall	<0.02	Negative		No
609	1972/1987 Level 2	Dark Room	Door	Brown	Wood	<0.02	Negative		No
610	1972/1987 Level 2	Dark Room	Door	Brown	Wood	<0.02	Negative		No
611	1972/1987 Level 2	Dark Room	Door	Brown	Wood	<0.02	Negative		No
612	1972/1987 Level 2	Dark Room	Door Frame	Off-White	Metal	<0.02	Negative		No
613	1972/1987 Level 2	Dark Room	Door Frame	Off-White	Metal	<0.02	Negative		No
614	1972/1987 Level 2	Dark Room	Door Frame	Off-White	Metal	<0.02	Negative		No
615	1972/1987 Level 2	X-Ray #1	Wall	Pink	Drywall	<0.02	Negative		No
616	1972/1987 Level 2	X-Ray #1	Wall	Pink	Drywall	<0.02	Negative		No
617	1972/1987 Level 2	X-Ray #1	Wall	Pink	Drywall	<0.02	Negative		No
618	1972/1987 Level 2	X-Ray #1	Wall	Pink	Drywall	<0.02	Negative		No
619	1972/1987 Level 2	X-Ray #1	Door	Brown	Wood	0.19	Positive	3 @ (3x7)	No
620	1972/1987 Level 2	X-Ray #1	Door	Brown	Wood	10.1	Positive		No
621	1972/1987 Level 2	X-Ray #1	Door	Brown	Wood	10.1	Positive		No
622	1972/1987 Level 2	X-Ray #1	Door Frame	Off-White	Metal	0.02	Negative		No
623	1972/1987 Level 2	X-Ray #1	Door Frame	Off-White	Metal	0.02	Negative		No
624	1972/1987 Level 2	X-Ray #1	Door Frame	Off-White	Metal	<0.02	Negative		No
651	1972/1987 Level 2	X-Ray #3	Wall	W/Pink	Drywall	<0.02	Negative		No
653	1972/1987 Level 2	X-Ray #3	Wall	W/Pink	Drywall	0.02	Negative		No
655	1972/1987 Level 2	X-Ray #3	Wall	W/Pink	Drywall	0.23	Negative		No
657	1972/1987 Level 2	X-Ray #3	Wall	W/Pink	Drywall	<0.02	Negative		No

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ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 7, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
659	1972/1987 Level 2	X-Ray #3	Door	Brown	Wood	<0.02	Negative		No
661	1972/1987 Level 2	X-Ray #3	Door	Brown	Wood	<0.02	Negative		No
663	1972/1987 Level 2	X-Ray #3	Door	Brown	Wood	0.09	Negative		No
665	1972/1987 Level 2	X-Ray #3	Door Frame	Off-White	Metal	<0.02	Positive	1 @ 17 lin.ft.	No
667	1972/1987 Level 2	X-Ray #3	Door Frame	Off-White	Metal	10.1	Positive		No
669	1972/1987 Level 2	X-Ray #3	Door Frame	Off-White	Metal	8.5	Positive		No
671	1972/1987 Level 2	X-Ray #3	Window Frame	Off-White	Metal	0.07	Negative		No
673	1972/1987 Level 2	X-Ray #3	Window Frame	Off-White	Metal	0.11	Negative		No
675	1972/1987 Level 2	X-Ray #3	Window Frame	Off-White	Metal	0.02	Negative		No
677	1972/1987 Level 2	Trauma 4	Wall	OW/Mauve	Drywall	<0.02	Negative		No
678	1972/1987 Level 2	Trauma 4	Wall	OW/Mauve	Drywall	0.24	Negative		No
679	1972/1987 Level 2	Trauma 4	Wall	OW/Mauve	Drywall	<0.02	Negative		No
680	1972/1987 Level 2	Trauma 4	Wall	OW/Mauve	Drywall	0.04	Negative		No
681	1972/1987 Level 2	Trauma 4	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
682	1972/1987 Level 2	Trauma 4	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
683	1972/1987 Level 2	Trauma 4	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
684	1972/1987 Level 2	Trauma 4	Door	Brown	Wood	<0.02	Negative		No
685	1972/1987 Level 2	Trauma 4	Door	Brown	Wood	<0.02	Negative		No
686	1972/1987 Level 2	Trauma 4	Door	Brown	Wood	<0.02	Negative		No
687	1972/1987 Level 2	Trauma 4	Door Frame	Off-White	Metal	0.03	Negative		No
688	1972/1987 Level 2	Trauma 4	Door Frame	Off-White	Metal	0.05	Negative		No
689	1972/1987 Level 2	Trauma 4	Door Frame	Off-White	Metal	0.02	Negative		No
690	1972/1987 Level 2	Trauma 4	Window Frame	Off-White	Metal	<0.02	Negative		No
691	1972/1987 Level 2	Trauma 4	Window Frame	Off-White	Metal	0.02	Negative		No
692	1972/1987 Level 2	Trauma 4	Window Frame	Off-White	Metal	<0.02	Negative		No
693		SRM 2573		Red		1.0			No
694		SRM 2573		Red		1.0			No
695		SRM 2573		Red		1.0			No

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Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 8, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
1		SRM 2573		Red		1.0	Negative		No
2		SRM 2573		Red		1.0	Negative		No
3		SRM 2573		Red		1.0	Negative		No
4	1972/1987 Level 2	Waiting Room	Wall	OW/Pink	Drywall	<0.02	Negative		No
5	1972/1987 Level 2	Waiting Room	Wall	OW/Pink	Drywall	<0.02	Negative		No
6	1972/1987 Level 2	Waiting Room	Wall	OW/Pink	Drywall	<0.02	Negative		No
7	1972/1987 Level 2	Waiting Room	Wall	OW/Pink	Drywall	<0.02	Negative		No
8	1972/1987 Level 2	Waiting Room	Floor	W/Pink	Vinyl Floor Tile	<0.02	Negative		No
9	1972/1987 Level 2	Waiting Room	Floor	W/Pink	Vinyl Floor Tile	<0.02	Negative		No
10	1972/1987 Level 2	Waiting Room	Floor	W/Pink	Vinyl Floor Tile	<0.02	Negative		No
11	1972/1987 Level 2	Waiting Room	Door	Pink	Metal	<0.02	Negative		No
12	1972/1987 Level 2	Waiting Room	Door	Pink	Metal	<0.02	Negative		No
13	1972/1987 Level 2	Waiting Room	Door	Pink	Metal	<0.02	Negative		No
14	1972/1987 Level 2	Waiting Room	Door Frame	Pink	Metal	<0.02	Negative		No
15	1972/1987 Level 2	Waiting Room	Door Frame	Pink	Metal	<0.02	Negative		No
16	1972/1987 Level 2	Waiting Room	Door Frame	Pink	Metal	<0.02	Negative		No
17	1972/1987 Level 2	Waiting Room	Window Frame	Pink	Metal	<0.02	Negative		No
18	1972/1987 Level 2	Waiting Room	Window Frame	Pink	Metal	<0.02	Negative		No
19	1972/1987 Level 2	Waiting Room	Window Frame	Pink	Metal	<0.02	Negative		No
20	1972/1987 Level 2	Waiting Room	Support Column	Brown	Wood	<0.02	Negative		No
21	1972/1987 Level 2	Waiting Room	Support Column	Brown	Wood	0.02	Negative		No
22	1972/1987 Level 2	Waiting Room	Support Column	Brown	Wood	<0.02	Negative		No
23	1972/1987 Level 2	Laboratory	Wall	W/Pink	Drywall	<0.02	Negative		No
24	1972/1987 Level 2	Laboratory	Wall	W/Pink	Drywall	<0.02	Negative		No
25	1972/1987 Level 2	Laboratory	Wall	W/Pink	Drywall	<0.02	Negative		No
26	1972/1987 Level 2	Laboratory	Wall	W/Pink	Drywall	<0.02	Negative		No
27	1972/1987 Level 2	Laboratory	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
28	1972/1987 Level 2	Laboratory	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
29	1972/1987 Level 2	Laboratory	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
30	1972/1987 Level 2	Laboratory	Door	Brown	Wood	<0.02	Negative		No

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31	1972/1987 Level 2	Laboratory	Door	Brown	Wood	<0.02	Negative		No
32	1972/1987 Level 2	Laboratory	Door	Brown	Wood	<0.02	Negative		No
33	1972/1987 Level 2	Laboratory	Door Frame	Off-White	Metal	<0.02	Negative		No
34	1972/1987 Level 2	Laboratory	Door Frame	Off-White	Metal	<0.02	Negative		No
35	1972/1987 Level 2	Laboratory	Door Frame	Off-White	Metal	<0.02	Negative		No
36	1972/1987 Level 2	Laboratory	Support Column	White	Metal	<0.02	Negative		No
37	1972/1987 Level 2	Laboratory	Support Column	White	Metal	<0.02	Negative		No
38	1972/1987 Level 2	Laboratory	Support Column	White	Metal	<0.02	Negative		No
39	1972/1987 Level 2	Laboratory	Cabinetry	Brown	Wood	0.1	Negative		No
40	1972/1987 Level 2	Laboratory	Cabinetry	Brown	Wood	0.04	Negative		No
41	1972/1987 Level 2	Laboratory	Cabinetry	Brown	Wood	0.03	Negative		No
42	1972/1987 Level 2	Trauma	Wall	OW/Pink	Drywall	<0.02	Negative		No
43	1972/1987 Level 2	Trauma	Wall	OW/Pink	Drywall	<0.02	Negative		No
44	1972/1987 Level 2	Trauma	Wall	OW/Pink	Drywall	<0.02	Negative		No
45	1972/1987 Level 2	Trauma	Wall	OW/Pink	Drywall	<0.02	Negative		No
46	1972/1987 Level 2	Trauma	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
47	1972/1987 Level 2	Trauma	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
48	1972/1987 Level 2	Trauma	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
49	1972/1987 Level 2	Trauma	Door	Brown	Wood	<0.02	Negative		No
50	1972/1987 Level 2	Trauma	Door	Brown	Wood	<0.02	Negative		No
51	1972/1987 Level 2	Trauma	Door	Brown	Wood	<0.02	Negative		No
52	1972/1987 Level 2	Trauma	Door Frame	Off-White	Metal	0.04	Negative		No
53	1972/1987 Level 2	Trauma	Door Frame	Off-White	Metal	0.02	Negative		No
54	1972/1987 Level 2	Trauma	Door Frame	Off-White	Metal	0.03	Negative		No
55	1972/1987 Level 2	Consultation	Wall	OW/Pink	Drywall	<0.02	Negative		No
56	1972/1987 Level 2	Consultation	Wall	OW/Pink	Drywall	<0.02	Negative		No
57	1972/1987 Level 2	Consultation	Wall	OW/Pink	Drywall	<0.02	Negative		No
58	1972/1987 Level 2	Consultation	Wall	OW/Pink	Drywall	<0.02	Negative		No
59	1972/1987 Level 2	Consultation	Floor	Gray	Carpet	0.28	Negative		No
60	1972/1987 Level 2	Consultation	Floor	Gray	Carpet	0.02	Negative		No

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61	1972/1987 Level 2	Consultation	Floor	Gray	Carpet	<0.02	Negative		No
62	1972/1987 Level 2	Consultation	Door	Brown	Wood	<0.02	Negative		No
63	1972/1987 Level 2	Consultation	Door	Brown	Wood	<0.02	Negative		No
64	1972/1987 Level 2	Consultation	Door	Brown	Wood	<0.02	Negative		No
65	1972/1987 Level 2	Consultation	Door Frame	Off-White	Metal	<0.02	Negative		No
66	1972/1987 Level 2	Consultation	Door Frame	Off-White	Metal	<0.02	Negative		No
67	1972/1987 Level 2	Consultation	Door Frame	Off-White	Metal	<0.02	Negative		No
68	1972/1987 Level 2	Recovery Room	Wall	Off-White	Drywall	<0.02	Negative		No
69	1972/1987 Level 2	Recovery Room	Wall	Off-White	Drywall	<0.02	Negative		No
70	1972/1987 Level 2	Recovery Room	Wall	Off-White	Drywall	<0.02	Negative		No
71	1972/1987 Level 2	Recovery Room	Wall	Off-White	Drywall	<0.02	Negative		No
72	1972/1987 Level 2	Recovery Room	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
73	1972/1987 Level 2	Recovery Room	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
74	1972/1987 Level 2	Recovery Room	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
75	1972/1987 Level 2	Recovery Room	Door	Brown	Wood	<0.02	Negative		No
76	1972/1987 Level 2	Recovery Room	Door	Brown	Wood	<0.02	Negative		No
77	1972/1987 Level 2	Recovery Room	Door	Brown	Wood	<0.02	Negative		No
78	1972/1987 Level 2	Recovery Room	Door Frame	Off-White	Metal	0.04	Negative		No
79	1972/1987 Level 2	Recovery Room	Door Frame	Off-White	Metal	0.07	Negative		No
80	1972/1987 Level 2	Recovery Room	Door Frame	Off-White	Metal	0.02	Negative		No
81	1972/1987 Level 2	Operating Room	Floor	Off-White	Vinyl Floor Tile	0.07	Negative		No
82	1972/1987 Level 2	Operating Room	Floor	Off-White	Vinyl Floor Tile	0.03	Negative		No
83	1972/1987 Level 2	Operating Room	Floor	Off-White	Vinyl Floor Tile	0.04	Negative		No
84	1972/1987 Level 2	Operating Room	Ceiling	White	Drywall	0.02	Negative		No
85	1972/1987 Level 2	Operating Room	Ceiling	White	Drywall	0.05	Negative		No
86	1972/1987 Level 2	Operating Room	Ceiling	White	Drywall	<0.02	Negative		No
87	1972/1987 Level 2	Operating Room	Door	Brown	Wood	<0.02	Negative		No
88	1972/1987 Level 2	Operating Room	Door	Brown	Wood	<0.02	Negative		No
89	1972/1987 Level 2	Operating Room	Door	Brown	Wood	<0.02	Negative		No
90	1972/1987 Level 2	Operating Room	Door Frame	Brown	Metal	0.07	Negative		No

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91	1972/1987 Level 2	Operating Room	Door Frame	Brown	Metal	0.05	Negative		No
92	1972/1987 Level 2	Operating Room	Door Frame	Brown	Metal	0.11	Negative		No
93	1972/1987 Level 2	Operating Room	Cabinetry	Yellow	Metal	0.3	Negative		No
94	1972/1987 Level 2	Operating Room	Cabinetry	Yellow	Metal	0.4	Negative		No
95	1972/1987 Level 2	Operating Room	Cabinetry	Yellow	Metal	0.6	Negative		No
96	1972/1987 Level 2	Sterilization Area	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
97	1972/1987 Level 2	Sterilization Area	Floor	Off-White	Vinyl Floor Tile	0.02	Negative		No
98	1972/1987 Level 2	Sterilization Area	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
99	1972/1987 Level 2	Sterilization Area	Ceiling	White	Drywall	<0.02	Negative		No
100	1972/1987 Level 2	Sterilization Area	Ceiling	White	Drywall	<0.02	Negative		No
101	1972/1987 Level 2	Sterilization Area	Ceiling	White	Drywall	<0.02	Negative		No
102	1972/1987 Level 2	Sterilization Area	Cabinetry	Blue	Metal	<0.02	Negative		No
103	1972/1987 Level 2	Sterilization Area	Cabinetry	Blue	Metal	0.02	Negative		No
104	1972/1987 Level 2	Sterilization Area	Cabinetry	Blue	Metal	<0.02	Negative		No
105	1972/1987 Level 2	Mech Room	Door	Off-White	Wood	<0.02	Negative		No
106	1972/1987 Level 2	Mech Room	Door	Off-White	Wood	<0.03	Negative		No
107	1972/1987 Level 2	Mech Room	Door	Off-White	Wood	<0.02	Negative		No
108	1972/1987 Level 2	Mech Room	Door Frame	White	Metal	0.02	Negative		No
109	1972/1987 Level 2	Mech Room	Door Frame	White	Metal	0.02	Negative		No
110	1972/1987 Level 2	Mech Room	Door Frame	White	Metal	0.02	Negative		No
111	1972/1987 Level 2	Mech Room	Hand Rail	Off-White	Metal	0.11	Negative		No
112	1972/1987 Level 2	Mech Room	Hand Rail	Off-White	Metal	0.02	Negative		No
113	1972/1987 Level 2	Mech Room	Hand Rail	Off-White	Metal	0.03	Negative		No
114	1972/1987 Level 2	Mech Room	Floor	Gray	Concrete	<0.02	Negative		No
115	1972/1987 Level 2	Mech Room	Floor	Gray	Concrete	<0.02	Negative		No
116	1972/1987 Level 2	Mech Room	Floor	Gray	Concrete	<0.02	Negative		No
117	1972/1987 Level 2	Mech Room	Stair Face	Yellow	Concrete	<0.02	Negative		No
118	1972/1987 Level 2	Mech Room	Stair Face	Yellow	Concrete	<0.02	Negative		No
119	1972/1987 Level 2	Mech Room	Stair Face	Yellow	Concrete	<0.02	Negative		No
120	1972/1987 Level 2	Mech Room	Wall	Tan/White	Concrete/Drywall	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 8, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
121	1972/1987 Level 2	Mech Room	Wall	Tan/White	Concrete/Drywall	<0.02	Negative		No
122	1972/1987 Level 2	Mech Room	Wall	Tan/White	Concrete/Drywall	<0.02	Negative		No
123	1972/1987 Level 2	Mech Room	Wall	Tan/White	Concrete/Drywall	<0.02	Negative		No
124	1972/1987 Level 2	Mech Room	Pipe	O/Y/Blue	Canvas	<0.02	Negative		No
125	1972/1987 Level 2	Mech Room	Pipe	O/Y/Blue	Canvas	<0.02	Negative		No
126	1972/1987 Level 2	Mech Room	Pipe	O/Y/Blue	Canvas	<0.03	Negative		No
127	1972/1987 Level 2	Mech Room	Belt Cover	Orange	Metal	<0.02	Negative		No
128	1972/1987 Level 2	Mech Room	Belt Cover	Orange	Metal	<0.02	Negative		No
129	1972/1987 Level 2	Mech Room	Belt Cover	Orange	Metal	<0.03	Negative		No
130	1972/1987 Level 2	Mech Room	Air Handling Unit	Gray	Metal	<0.02	Negative		No
131	1972/1987 Level 2	Mech Room	Air Handling Unit	Gray	Metal	<0.02	Negative		No
132	1972/1987 Level 2	Mech Room	Air Handling Unit	Gray	Metal	<0.02	Negative		No
133	1972/1987 Level 2	Mech Room	Pipe	Orange/Red	Metal	<0.02	Negative		No
134	1972/1987 Level 2	Mech Room	Pipe	Orange/Red	Metal	<0.02	Negative		No
135	1972/1987 Level 2	Mech Room	Pipe	Orange/Red	Metal	<0.02	Negative		No
136	1972/1987 Level 2	Mech Room	Safety Shower	Yellow	Metal	0.08	Negative		No
137	1972/1987 Level 2	Mech Room	Safety Shower	Yellow	Metal	0.15	Negative		No
138	1972/1987 Level 2	Mech Room	Safety Shower	Yellow	Metal	0.05	Negative		No
139	1972/1987 Level 2	Mech Room	Pipe	Green	Metal	0.02	Negative		No
140	1972/1987 Level 2	Mech Room	Pipe	Green	Metal	<0.02	Negative		No
141	1972/1987 Level 2	Mech Room	Pipe	Green	Metal	<0.02	Negative		No
142	1972/1987 Level 2	Mech Room	Boiler	Orange	Metal	2.1	Positive		No
143	1972/1987 Level 2	Mech Room	Boiler	Orange	Metal	1.6	Positive	2	No
144	1972/1987 Level 2	Mech Room	Boiler	Orange	Metal	2.0	Positive		No
145	1972/1987 Level 2	Mech Room	Natural Gas Pipe	Yellow	Metal	<0.02	Negative		No
146	1972/1987 Level 2	Mech Room	Natural Gas Pipe	Yellow	Metal	<0.02	Negative		No
147	1972/1987 Level 2	Mech Room	Natural Gas Pipe	Yellow	Metal	<0.02	Negative		No
148	1972/1987 Level 2	Mech Room	Overhead Door Frame	Gray	Metal	<0.02	Negative		No
149	1972/1987 Level 2	Mech Room	Overhead Door Frame	Gray	Metal	<0.02	Negative		No
150	1972/1987 Level 2	Mech Room	Overhead Door Frame	Gray	Metal	<0.02	Negative		No

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151	1972/1987 Level 2	North Stairwell	Wall	Off-White	Concrete	<0.02	Negative		No
152	1972/1987 Level 2	North Stairwell	Wall	Off-White	Concrete	<0.02	Negative		No
153	1972/1987 Level 2	North Stairwell	Wall	Off-White	Concrete	<0.04	Negative		No
154	1972/1987 Level 2	North Stairwell	Wall	Off-White	Concrete	<0.02	Negative		No
155	1972/1987 Level 2	North Stairwell	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
156	1972/1987 Level 2	North Stairwell	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
157	1972/1987 Level 2	North Stairwell	Floor	White	Vinyl Floor Tile	<0.02	Negative		No
158	1972/1987 Level 2	North Stairwell	Door	Off-White	Wood	<0.02	Negative		No
159	1972/1987 Level 2	North Stairwell	Door	Off-White	Wood	<0.02	Negative		No
160	1972/1987 Level 2	North Stairwell	Door	Off-White	Wood	<0.02	Negative		No
161	1972/1987 Level 2	North Stairwell	Door Frame	Off-White	Metal	<0.02	Negative		No
162	1972/1987 Level 2	North Stairwell	Door Frame	Off-White	Metal	<0.02	Negative		No
163	1972/1987 Level 2	North Stairwell	Door Frame	Off-White	Metal	<0.02	Negative		No
164	1972/1987 Level 2	North Stairwell	Hand Rail	Yellow	Metal	0.5	Negative		No
165	1972/1987 Level 2	North Stairwell	Hand Rail	Yellow	Metal	0.3	Negative		No
166	1972/1987 Level 2	North Stairwell	Hand Rail	Yellow	Metal	0.4	Negative		No
167	1972/1987 Level 1	Mech Room 9	Door	Gray	Wood	<0.02	Negative		No
168	1972/1987 Level 1	Mech Room 9	Door	Gray	Wood	<0.02	Negative		No
169	1972/1987 Level 1	Mech Room 9	Door	Gray	Wood	<0.02	Negative		No
170	1972/1987 Level 1	Mech Room 9	Door Frame	Gray	Metal	<0.02	Negative		No
171	1972/1987 Level 1	Mech Room 9	Door Frame	Gray	Metal	<0.02	Negative		No
172	1972/1987 Level 1	Mech Room 9	Door Frame	Gray	Metal	<0.02	Negative		No
173	1972/1987 Level 1	Mech Room 9	Hand Rail	Yellow	Metal	0.05	Negative		No
174	1972/1987 Level 1	Mech Room 9	Hand Rail	Yellow	Metal	0.02	Negative		No
175	1972/1987 Level 1	Mech Room 9	Hand Rail	Yellow	Metal	<0.03	Negative		No
176	1972/1987 Level 1	Mech Room 9	Air Handling Unit	Gray	Metal	0.02	Negative		No
177	1972/1987 Level 1	Mech Room 9	Air Handling Unit	Gray	Metal	0.02	Negative		No
178	1972/1987 Level 1	Mech Room 9	Air Handling Unit	Gray	Metal	<0.03	Negative		No
179	1972/1987 Level 1	Mech Room 9	Pipe	Y/Blue/Green	Canvas	0.03	Negative		No
180	1972/1987 Level 1	Mech Room 9	Pipe	Y/Blue/Green	Canvas	<0.02	Negative		No

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181	1972/1987 Level 1	Mech Room 9	Pipe	Y/Blue/Green	Canvas	<0.02	Negative		No
182	1972/1987 Level 1	Communications Rm	Wall	White	Concrete	<0.02	Negative		No
183	1972/1987 Level 1	Communications Rm	Wall	White	Concrete	<0.02	Negative		No
184	1972/1987 Level 1	Communications Rm	Wall	White	Concrete	<0.02	Negative		No
185	1972/1987 Level 1	Communications Rm	Wall	White	Concrete	<0.02	Negative		No
186	1972/1987 Level 1	Communications Rm	Floor	Gray	Concrete	<0.02	Negative		No
187	1972/1987 Level 1	Communications Rm	Floor	Gray	Concrete	<0.02	Negative		No
188	1972/1987 Level 1	Communications Rm	Floor	Gray	Concrete	<0.02	Negative		No
189	1972/1987 Level 1	Communications Rm	Ceiling	White	Concrete	<0.02	Negative		No
190	1972/1987 Level 1	Communications Rm	Ceiling	White	Concrete	<0.02	Negative		No
191	1972/1987 Level 1	Communications Rm	Ceiling	White	Concrete	<0.02	Negative		No
192	1972/1987 Level 1	Communications Rm	Door	Gray	Wood	<0.02	Negative		No
193	1972/1987 Level 1	Communications Rm	Door	Gray	Wood	<0.02	Negative		No
194	1972/1987 Level 1	Communications Rm	Door	Gray	Wood	<0.02	Negative		No
195	1972/1987 Level 1	Communications Rm	Door Frame	Gray	Metal	<0.02	Negative		No
196	1972/1987 Level 1	Communications Rm	Door Frame	Gray	Metal	<0.02	Negative		No
197	1972/1987 Level 1	Communications Rm	Door Frame	Gray	Metal	0.02	Negative		No
198	1972/1987 Level 1	Laboratory	Wall	Gray	Drywall	0.02	Negative		No
199	1972/1987 Level 1	Laboratory	Wall	Gray	Drywall	0.02	Negative		No
200	1972/1987 Level 1	Laboratory	Wall	Gray	Drywall	0.04	Negative		No
201	1972/1987 Level 1	Laboratory	Wall	Gray	Drywall	0.02	Negative		No
202	1972/1987 Level 1	Laboratory	Floor	Gray	Vinyl Floor Tile	0.02	Negative		No
203	1972/1987 Level 1	Laboratory	Floor	Gray	Vinyl Floor Tile	<0.02	Negative		No
204	1972/1987 Level 1	Laboratory	Floor	Gray	Vinyl Floor Tile	<0.02	Negative		No
205	1972/1987 Level 1	Laboratory	Door	Pink	Wood	<0.02	Negative		No
206	1972/1987 Level 1	Laboratory	Door	Pink	Wood	<0.02	Negative		No
207	1972/1987 Level 1	Laboratory	Door	Pink	Wood	<0.02	Negative		No
208	1972/1987 Level 1	Laboratory	Door Frame	Pink	Metal	<0.02	Negative		No
209	1972/1987 Level 1	Laboratory	Door Frame	Pink	Metal	<0.02	Negative		No
210	1972/1987 Level 1	Laboratory	Door Frame	Pink	Metal	<0.02	Negative		No

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211	1972/1987 Level 1	Laboratory	Window Frame	Pink	Metal	<0.02	Negative		No
212	1972/1987 Level 1	Laboratory	Window Frame	Pink	Metal	<0.02	Negative		No
213	1972/1987 Level 1	Laboratory	Window Frame	Pink	Metal	<0.02	Negative		No
214	1972/1987 Level 1	Laboratory	Cabinetry	Gray	Wood	<0.02	Negative		No
215	1972/1987 Level 1	Laboratory	Cabinetry	Gray	Wood	<0.02	Negative		No
216	1972/1987 Level 1	Laboratory	Cabinetry	Gray	Wood	<0.02	Negative		No
217	1972/1987 Level 1	Exam Room	Wall	Gray	Drywall	<0.02	Negative		No
218	1972/1987 Level 1	Exam Room	Wall	Gray	Drywall	<0.02	Negative		No
219	1972/1987 Level 1	Exam Room	Wall	Gray	Drywall	<0.02	Negative		No
220	1972/1987 Level 1	Exam Room	Wall	Gray	Drywall	<0.02	Negative		No
221	1972/1987 Level 1	Exam Room	Floor	Gray/White	Vinyl Floor Tile	<0.02	Negative		No
222	1972/1987 Level 1	Exam Room	Floor	Gray/White	Vinyl Floor Tile	<0.02	Negative		No
223	1972/1987 Level 1	Exam Room	Floor	Gray/White	Vinyl Floor Tile	<0.02	Negative		No
224	1972/1987 Level 1	Exam Room	Door	Gray	Wood	<0.02	Negative		No
225	1972/1987 Level 1	Exam Room	Door	Gray	Wood	<0.02	Negative		No
226	1972/1987 Level 1	Exam Room	Door	Gray	Wood	<0.02	Negative		No
227	1972/1987 Level 1	Exam Room	Door Frame	Off-White	Metal	<0.02	Negative		No
228	1972/1987 Level 1	Exam Room	Door Frame	Off-White	Metal	<0.02	Negative		No
229	1972/1987 Level 1	Exam Room	Door Frame	Off-White	Metal	<0.02	Negative		No
230	1972/1987 Level 1	Exam Room	Cabinetry	Gray	Wood	<0.02	Negative		No
231	1972/1987 Level 1	Exam Room	Cabinetry	Gray	Wood	<0.02	Negative		No
232	1972/1987 Level 1	Exam Room	Cabinetry	Gray	Wood	<0.02	Negative		No
233	1972/1987 Level 1	Dialysis Room	Wall	Pink/Gray	Drywall	0.05	Negative		No
234	1972/1987 Level 1	Dialysis Room	Wall	Pink/Gray	Drywall	0.07	Negative		No
235	1972/1987 Level 1	Dialysis Room	Wall	Pink/Gray	Drywall	0.03	Negative		No
236	1972/1987 Level 1	Dialysis Room	Wall	Pink/Gray	Drywall	<0.02	Negative		No
237	1972/1987 Level 1	Dialysis Room	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
238	1972/1987 Level 1	Dialysis Room	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
239	1972/1987 Level 1	Dialysis Room	Floor	Off-White	Vinyl Floor Tile	<0.02	Negative		No
240	1972/1987 Level 1	Dialysis Room	Door	Gray	Wood	<0.02	Negative		No

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241	1972/1987 Level 1	Dialysis Room	Door	Gray	Wood	<0.02	Negative		No
242	1972/1987 Level 1	Dialysis Room	Door	Gray	Wood	<0.03	Negative		No
243	1972/1987 Level 1	Dialysis Room	Door Frame	Off-White	Metal	<0.02	Negative		No
244	1972/1987 Level 1	Dialysis Room	Door Frame	Off-White	Metal	<0.02	Negative		No
245	1972/1987 Level 1	Dialysis Room	Door Frame	Off-White	Metal	<0.02	Negative		No
246	1972/1987 Level 1	Dialysis Room	Window Frame	Pink	Metal	<0.02	Negative		No
247	1972/1987 Level 1	Dialysis Room	Window Frame	Pink	Metal	<0.02	Negative		No
248	1972/1987 Level 1	Dialysis Room	Window Frame	Pink	Metal	<0.02	Negative		No
249		SRM 2573		Red		1.0			No
250		SRM 2573		Red		1.0			No
251		SRM 2573		Red		1.1			No
252		SRM 2573		Red		1.0			No
253		SRM 2573		Red		1.0			No
254		SRM 2573		Red		1.0			No
255	1949/1972 Edition	Exterior North	Downspout	White	Metal	<0.02	Negative		No
256	1949/1972 Edition	Exterior North	Downspout	White	Metal	<0.02	Negative		No
257	1949/1972 Edition	Exterior North	Downspout	White	Metal	<0.02	Negative		No
258	1949/1972 Edition	Exterior North	Window Lintel	Brown	Metal	0.26	Negative		No
259	1949/1972 Edition	Exterior North	Window Lintel	Brown	Metal	0.03	Negative		No
260	1949/1972 Edition	Exterior North	Window Lintel	Brown	Metal	0.02	Negative		No
261	1949/1972 Edition	Exterior North	Soffit	White	Concrete	<0.02	Negative		No
262	1949/1972 Edition	Exterior North	Soffit	White	Concrete	0.02	Negative		No
263	1949/1972 Edition	Exterior North	Soffit	White	Concrete	0.03	Negative		No
264	1949/1972 Edition	Exterior North	Safety Rail @ High Voltage	Yellow	Metal	<0.02	Negative		No
265	1949/1972 Edition	Exterior North	Safety Rail @ High Voltage	Yellow	Metal	<0.03	Negative		No
266	1949/1972 Edition	Exterior North	Safety Rail @ High Voltage	Yellow	Metal	<0.02	Negative		No
267	1949/1972 Edition	Exterior North	Hand Rail @ Old Dock	Tan	Metal	0.03	Negative		No
268	1949/1972 Edition	Exterior North	Hand Rail @ Old Dock	Tan	Metal	0.02	Negative		No
269	1949/1972 Edition	Exterior North	Hand Rail @ Old Dock	Tan	Metal	0.18	Negative		No
270	1949 Edition	Exterior East	Guard Rail	Gray	Metal	0.28	Negative		No

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271	1949 Edition	Exterior East	Guard Rail	Gray	Metal	0.16	Negative		No
272	1949 Edition	Exterior East	Guard Rail	Gray	Metal	0.09	Negative		No
273	1949 Edition	Exterior East	Hand Rail	Gray	Metal	0.02	Negative		No
274	1949 Edition	Exterior East	Hand Rail	Gray	Metal	<0.03	Negative		No
275	1949 Edition	Exterior East	Hand Rail	Gray	Metal	<0.03	Negative		No
276	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.14	Negative		No
277	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.21	Negative		No
278	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.16	Negative		No
279	1949 Edition	Exterior East	Window Lintel	Pink	Metal	0.24	Negative		No
280	1949 Edition	Exterior East	Window Lintel	Pink	Metal	0.24	Negative		No
281	1949 Edition	Exterior East	Window Lintel	Pink	Metal	0.21	Negative		No
282	1949 Edition	Exterior East	Door	Pink	Metal	<0.02	Negative		No
283	1949 Edition	Exterior East	Door	Pink	Metal	<0.02	Negative		No
284	1949 Edition	Exterior East	Door	Pink	Metal	<0.02	Negative		No
285	1949 Edition	Exterior East	Door Frame	Pink	Metal	<0.02	Negative		No
286	1949 Edition	Exterior East	Door Frame	Pink	Metal	<0.03	Negative		No
287	1949 Edition	Exterior East	Door Frame	Pink	Metal	<0.04	Negative		No
288	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.04	Negative		No
289	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.07	Negative		No
290	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.09	Negative		No
291	1949 Edition	Exterior East	Window Lintel	Pink	Metal	0.23	Negative		No
292	1949 Edition	Exterior East	Window Lintel	Pink	Metal	0.2	Negative		No
293	1949 Edition	Exterior East	Window Lintel	Pink	Metal	0.27	Negative		No
294	Oxygen Shed		Support Post	Off-White	Metal	<0.02	Negative		No
295	Oxygen Shed		Support Post	Off-White	Metal	<0.02	Negative		No
296	Oxygen Shed		Support Post	Off-White	Metal	<0.02	Negative		No
297	1961 Edition	Exterior East	Door	Brown	Metal	0.1	Negative		No
298	1961 Edition	Exterior East	Door	Brown	Metal	0.03	Negative		No
299	1961 Edition	Exterior East	Door	Brown	Metal	0.02	Negative		No
300	1961 Edition	Exterior East	Door Frame	Brown	Metal	0.03	Negative		No

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301	1961 Edition	Exterior East	Door Frame	Brown	Metal	0.04	Negative		No
302	1961 Edition	Exterior East	Door Frame	Brown	Metal	0.02	Negative		No
303	1961 Edition	Exterior East	Soffit	White	Concrete	<0.02	Negative		No
304	1961 Edition	Exterior East	Soffit	White	Concrete	<0.02	Negative		No
305	1961 Edition	Exterior East	Soffit	White	Concrete	<0.02	Negative		No
306	1961 Edition	Exterior East	Window Lintel	Brown	Metal	0.07	Negative		No
307	1961 Edition	Exterior East	Window Lintel	Brown	Metal	0.11	Negative		No
308	1961 Edition	Exterior East	Window Lintel	Brown	Metal	0.04	Negative		No
309	1961 Edition	Exterior East	Bio Hazard Door	Off-White	Wood	0.02	Negative		No
310	1961 Edition	Exterior East	Bio Hazard Door	Off-White	Wood	<0.04	Negative		No
311	1961 Edition	Exterior East	Bio Hazard Door	Off-White	Wood	<0.03	Negative		No
312	1961 Edition	Exterior East	Incinerator	Brown	Metal	<0.02	Negative		No
313	1961 Edition	Exterior East	Incinerator	Brown	Metal	<0.02	Negative		No
314	1961 Edition	Exterior East	Incinerator	Brown	Metal	<0.02	Negative		No
315	1961 Edition	Exterior East	Incinerator Roof Support	Off-White	Metal	<0.03	Negative		No
316	1961 Edition	Exterior East	Incinerator Roof Support	Off-White	Metal	<0.03	Negative		No
317	1961 Edition	Exterior East	Incinerator Roof Support	Off-White	Metal	<0.03	Negative		No
318	1961 Edition	Exterior East	Ballards @ Fence	Yellow	Metal	0.02	Negative		No
319	1961 Edition	Exterior East	Ballards @ Fence	Yellow	Metal	<0.02	Negative		No
320	1961 Edition	Exterior East	Ballards @ Fence	Yellow	Metal	<0.02	Negative		No
321	1961 Edition	Exterior East	Door	Brown	Metal	<0.03	Negative		No
322	1961 Edition	Exterior East	Door	Brown	Metal	<0.03	Negative		No
323	1961 Edition	Exterior East	Door	Brown	Metal	<0.02	Negative		No
324	1961 Edition	Exterior East	Door Frame	Brown	Metal	<0.03	Negative		No
325	1961 Edition	Exterior East	Door Frame	Brown	Metal	0.04	Negative		No
326	1961 Edition	Exterior East	Door Frame	Brown	Metal	<0.03	Negative		No
327	1961 Edition	Exterior East	Siding	Brown	Brick	<0.03	Negative		No
328	1961 Edition	Exterior East	Siding	Brown	Brick	0.02	Negative		No
329	1961 Edition	Exterior East	Siding	Brown	Brick	0.06	Negative		No
330	1961 Edition	Exterior East	Support Column	White	Concrete	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 8, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
331	1961 Edition	Exterior East	Support Column	White	Concrete	<0.02	Negative		No
332	1961 Edition	Exterior East	Support Column	White	Concrete	0.02	Negative		No
333	1961 Edition	Exterior East	Window Lintel	Brown	Metal	0.02	Negative		No
334	1961 Edition	Exterior East	Window Lintel	Brown	Metal	<0.03	Negative		No
335	1961 Edition	Exterior East	Window Lintel	Brown	Metal	0.04	Negative		No
336	1961 Edition	Exterior East	Overhang Lintel	White	Metal	0.09	Negative		No
337	1961 Edition	Exterior East	Overhang Lintel	White	Metal	0.09	Negative		No
338	1961 Edition	Exterior East	Overhang Lintel	White	Metal	0.07	Negative		No
339	1961 Edition	Exterior East	Downspout	White	Metal	0.08	Negative		No
340	1961 Edition	Exterior East	Downspout	White	Metal	0.05	Negative		No
341	1961 Edition	Exterior East	Downspout	White	Metal	<0.02	Negative		No
342	1961 Edition	Exterior West	Overhang Support Post	White	Concrete	<0.02	Negative		No
343	1961 Edition	Exterior West	Overhang Support Post	White	Concrete	<0.03	Negative		No
344	1961 Edition	Exterior West	Overhang Support Post	White	Concrete	<0.02	Negative		No
345	1961 Edition	Exterior West	Overhang Soffit	White	Concrete	<0.02	Negative		No
346	1961 Edition	Exterior West	Overhang Soffit	White	Concrete	<0.02	Negative		No
347	1961 Edition	Exterior West	Overhang Soffit	White	Concrete	<0.02	Negative		No
348	1961 Edition	Exterior West	Siding	Brown	Brick	<0.02	Negative		No
349	1961 Edition	Exterior West	Siding	Brown	Brick	<0.02	Negative		No
350	1961 Edition	Exterior West	Siding	Brown	Brick	<0.02	Negative		No
351	1961 Edition	Exterior West	Window Lintel	Brown	Metal	0.23	Negative		No
352	1961 Edition	Exterior West	Window Lintel	Brown	Metal	0.4	Negative		No
353	1961 Edition	Exterior West	Window Lintel	Brown	Metal	0.27	Negative		No
354	1961 Edition	Exterior West	Flag Pole	Silver	Metal	0.03	Negative		No
355	1961 Edition	Exterior West	Flag Pole	Silver	Metal	0.08	Negative		No
356	1961 Edition	Exterior West	Flag Pole	Silver	Metal	0.12	Negative		No
357	1961 Edition	Exterior West	Soffit	White	Concrete	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 8, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
358	1961 Edition	Exterior West	Soffit	White	Concrete	<0.02	Negative		No
359	1961 Edition	Exterior West	Soffit	White	Concrete	<0.02	Negative		No
360	1961 Edition	Exterior West	I Beam @ Exterior Stairs	Brown	Metal	0.23	Negative		No
361	1961 Edition	Exterior West	I Beam @ Exterior Stairs	Brown	Metal	0.3	Negative		No
362	1961 Edition	Exterior West	I Beam @ Exterior Stairs	Brown	Metal	0.18	Negative		No
363	1941/1961 Edition	Exterior Connection	Window Frame	Pink	Metal	0.4	Negative		No
364	1941/1961 Edition	Exterior Connection	Window Frame	Pink	Metal	0.4	Negative		No
365	1941/1961 Edition	Exterior Connection	Window Frame	Pink	Metal	0.4	Negative		No
366	1941/1961 Edition	Exterior Connection	Window Lintel	Pink	Metal	0.08	Negative		No
367	1941/1961 Edition	Exterior Connection	Window Lintel	Pink	Metal	0.03	Negative		No
368	1941/1961 Edition	Exterior Connection	Window Lintel	Pink	Metal	0.04	Negative		No
369	1941/1961 Edition	Exterior Connection	Soffit	White	Concrete	<0.03	Negative		No
370	1941/1961 Edition	Exterior Connection	Soffit	White	Concrete	0.02	Negative		No
371	1941/1961 Edition	Exterior Connection	Soffit	White	Concrete	<0.02	Negative		No
372	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.09	Negative		No
373	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.06	Negative		No
374	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.07	Negative		No
375	1949 Edition	Exterior East	Window Lintel	Pink	Metal	0.4	Negative		No
376	1949 Edition	Exterior East	Window Lintel	Pink	Metal	0.3	Negative		No
377	1949 Edition	Exterior East	Window Lintel	Pink	Metal	0.23	Negative		No
378	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.24	Negative		No
379	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.24	Negative		No
380	1949 Edition	Exterior East	Window Frame	Pink	Metal	0.3	Negative		No
381	1949 Edition	Exterior East	Window Lintel	Pink	Metal	<0.02	Negative		No
382	1949 Edition	Exterior East	Window Lintel	Pink	Metal	<0.02	Negative		No
383	1949 Edition	Exterior East	Window Lintel	Pink	Metal	0.03	Negative		No
384	1949 Edition	Exterior East	Door	Pink	Metal	<0.02	Negative		No
385	1949 Edition	Exterior East	Door	Pink	Metal	<0.02	Negative		No
386	1949 Edition	Exterior East	Door	Pink	Metal	<0.02	Negative		No
387	1949 Edition	Exterior East	Door Frame	Pink	Metal	0.03	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 8, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
388	1949 Edition	Exterior East	Door Frame	Pink	Metal	<0.02	Negative		No
389	1949 Edition	Exterior East	Door Frame	Pink	Metal	<0.02	Negative		No
390	1972/1987 Edition	Exterior East	Window Frame	Pink	Metal	0.03	Negative		No
391	1972/1987 Edition	Exterior East	Window Frame	Pink	Metal	<0.02	Negative		No
392	1972/1987 Edition	Exterior East	Window Frame	Pink	Metal	<0.03	Negative		No
393	1972/1987 Edition	Exterior East	Door	Pink	Metal	<0.02	Negative		No
394	1972/1987 Edition	Exterior East	Door	Pink	Metal	<0.03	Negative		No
395	1972/1987 Edition	Exterior East	Door	Pink	Metal	<0.02	Negative		No
396	1972/1987 Edition	Exterior East	Door Frame	Pink	Metal	<0.03	Negative		No
397	1972/1987 Edition	Exterior East	Door Frame	Pink	Metal	<0.02	Negative		No
398	1972/1987 Edition	Exterior East	Door Frame	Pink	Metal	<0.02	Negative		No
399	1972/1987 Edition	Exterior East	Soffit	White	Drywall	<0.02	Negative		No
400	1972/1987 Edition	Exterior East	Soffit	White	Drywall	<0.02	Negative		No
401	1972/1987 Edition	Exterior East	Soffit	White	Drywall	<0.04	Negative		No
402	1972/1987 Edition	Exterior East	Soffit Lintel	Tan	Metal	<0.02	Negative		No
403	1972/1987 Edition	Exterior East	Soffit Lintel	Tan	Metal	<0.02	Negative		No
404	1972/1987 Edition	Exterior East	Soffit Lintel	Tan	Metal	<0.02	Negative		No
405	1972/1987 Edition	Exterior East	Support Column	White	Concrete	<0.02	Negative		No
406	1972/1987 Edition	Exterior East	Support Column	White	Concrete	<0.02	Negative		No
407	1972/1987 Edition	Exterior East	Support Column	White	Concrete	<0.03	Negative		No
408	1972/1987 Edition	Exterior East	Northeast Header	Brown	Metal	0.5	Negative		No
409	1972/1987 Edition	Exterior East	Northeast Header	Brown	Metal	0.7	Negative		No
410	1972/1987 Edition	Exterior East	Northeast Header	Brown	Metal	0.8	Negative		No
411	1972/1987 Edition	Exterior North	Window Frame	Pink	Metal	<0.02	Negative		No
412	1972/1987 Edition	Exterior North	Window Frame	Pink	Metal	<0.02	Negative		No
413	1972/1987 Edition	Exterior North	Window Frame	Pink	Metal	<0.02	Negative		No
414	1972/1987 Edition	Exterior North	Window Lintel	Tan	Metal	<0.02	Negative		No
415	1972/1987 Edition	Exterior North	Window Lintel	Tan	Metal	<0.02	Negative		No
416	1972/1987 Edition	Exterior North	Window Lintel	Tan	Metal	<0.04	Negative		No
417	1972/1987 Edition	Exterior North	Door	Tan	Metal	<0.02	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR
ALL Consulting	Former Howard County Hospital	Name: Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date: February 8, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
418	1972/1987 Edition	Exterior North	Door	Tan	Metal	<0.02	Negative		No
419	1972/1987 Edition	Exterior North	Door	Tan	Metal	<0.02	Negative		No
420	1972/1987 Edition	Exterior North	Door Frame	Tan	Metal	<0.02	Negative		No
421	1972/1987 Edition	Exterior North	Door Frame	Tan	Metal	<0.02	Negative		No
422	1972/1987 Edition	Exterior North	Door Frame	Tan	Metal	<0.02	Negative		No
423	1972/1987 Edition	Exterior North	Support Column	White	Concrete	<0.02	Negative		No
424	1972/1987 Edition	Exterior North	Support Column	White	Concrete	<0.02	Negative		No
425	1972/1987 Edition	Exterior North	Support Column	White	Concrete	<0.02	Negative		No
426	1972/1987 Edition	Exterior North	Exposed Header	Gray	Metal	0.4	Negative		No
427	1972/1987 Edition	Exterior North	Exposed Header	Gray	Metal	0.4	Negative		No
428	1972/1987 Edition	Exterior North	Exposed Header	Gray	Metal	0.3	Negative		No
429	1972/1987 Edition	Exterior North	Overhang Soffit	White	Wood	<0.02	Negative		No
430	1972/1987 Edition	Exterior North	Overhang Soffit	White	Wood	<0.02	Negative		No
431	1972/1987 Edition	Exterior North	Overhang Soffit	White	Wood	<0.02	Negative		No
432	1972/1987 Edition	Exterior North	Safety Rail @ Transformer	Yellow	Metal	<0.02	Negative		No
433	1972/1987 Edition	Exterior North	Safety Rail @ Transformer	Yellow	Metal	0.02	Negative		No
434	1972/1987 Edition	Exterior North	Safety Rail @ Transformer	Yellow	Metal	<0.02	Negative		No
435	1972/1987 Edition	Exterior North	Mesh Door	Black	Metal	<0.02	Negative		No
436	1972/1987 Edition	Exterior North	Mesh Door	Black	Metal	<0.02	Negative		No
437	1972/1987 Edition	Exterior North	Mesh Door	Black	Metal	<0.02	Negative		No
438	1972/1987 Edition	Exterior North	Mesh Door	Black/Tan	Metal	0.07	Negative		No
439	1972/1987 Edition	Exterior North	Mesh Door	Black/Tan	Metal	0.16	Negative		No
440	1972/1987 Edition	Exterior North	Mesh Door	Black/Tan	Metal	0.1	Negative		No
441	1972/1987 Edition	Exterior North	Safety Rail @ Pipe	Yellow	Metal	0.04	Negative		No
442	1972/1987 Edition	Exterior North	Safety Rail @ Pipe	Yellow	Metal	<0.02	Negative		No
443	1972/1987 Edition	Exterior North	Safety Rail @ Pipe	Yellow	Metal	0.05	Negative		No
444	Pump House	Exterior	Door	Tan	Metal	<0.02	Negative		No
445	Pump House	Exterior	Door	Tan	Metal	<0.02	Negative		No
446	Pump House	Exterior	Door	Tan	Metal	<0.02	Negative		No
447	Pump House	Exterior	Door Frame	Tan	Metal	<0.03	Negative		No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

EEG Environmental Enterprise Group, Inc.

XRF Data Sheet

11-0117-085

CLIENT	PROPERTY	INSPECTOR	
ALL Consulting	Former Howard County Hospital	Name:	Mike Cole
1718 South Cheyenne Avenue	800 West Leslie Street	Signature:	
Tulsa, OK 74119	Nashville, Arkansas	Inspection Date:	February 8, 2012

TEST NO.	AREA OR FLOOR	ROOM EQUIV. OR NAME	COMPONENT	COLOR	SUBSTRATE	XRF READING (MG/CM^2)	RESULT (POS., NEG., INC.)	QUANTITY	CORRECTION (YES/NO)
448	Pump House	Exterior	Door Frame	Tan	Metal	<0.03	Negative		No
449	Pump House	Exterior	Door Frame	Tan	Metal	<0.03	Negative		No
450	Pump House	Exterior	Facia	Tan	Wood	<0.02	Negative		No
451	Pump House	Exterior	Facia	Tan	Wood	<0.02	Negative		No
452	Pump House	Exterior	Facia	Tan	Wood	<0.02	Negative		No
453		SRM 2573		Red		1.0			No
454		SRM 2573		Red		1.1			No
455		SRM 2573		Red		1.1			No

RESULT: P = POSITIVE N = NEGATIVE I - INCONCLUSIVE

SUBSTRATE: W = WOOD M = METAL C = CONCRETE B = BRICK D = DRYWALL P = PLASTER

XRF: Niton XLP 300A SERIAL # 25752

AREA/FLOOR: I = INTERIOR E = EXTERIOR B = BASEMENT 1 = FIRST FLOOR

APPENDIX B

CALIBRATION AND TOLERANCE CHECK SHEETS

Calibration Check Test Results

Name of Property Owner:	ALL Consulting	Inspector Name:	Mike Cole
Property Identification:	Fmr Howard Co Hos	Inspector Signature:	
Residence/Building Identification:	Nashville, AR	Inspection Date:	February 6, 2012

NIST SRM 2573: 1.04 mg/cm^3 Calibration Check Tolerance Used: 0.8 to 1.2 mg/cm^3

First Calibration Check

NIST SRM 2573			First Average	Difference Btwn. First Average & SRM*
First Reading	Second Reading	Third Reading		
1.1	1.0	1.0	1.03	0.01

Second Calibration Check

NIST SRM 2573			Second Average	Difference Btwn. Second Average & SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	1.0	1.00	0.04

Third Calibration Check *(if required)*

NIST SRM 2573			Third Average	Difference Btwn. Third Average & SRM*
First Reading	Second Reading	Third Reading		
1.0	1.1	1.0	1.03	0.01

Fourth Calibration Check *(if required)*

NIST SRM 2573			Fourth Average	Difference Btwn. Fourth Average & SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	0.9	0.97	0.07

*If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check test.

Calibration Check Test Results

Name of Property Owner:	ALL Consulting	Inspector Name:	Mike Cole
Property Identification:	Fmr Howard Co Hos	Inspector Signature:	
Residence/Building Identification:	Nashville, AR	Inspection Date:	February 7, 2012

NIST SRM 2573: 1.04 mg/cm^3 Calibration Check Tolerance Used: 0.8 to 1.2 mg/cm^3

First Calibration Check

NIST SRM 2573			First Average	Difference Btwn. First Average & SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	0.9	0.97	0.07

Second Calibration Check

NIST SRM 2573			Second Average	Difference Btwn. Second Average & SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	1.0	1.00	0.04

Third Calibration Check *(if required)*

NIST SRM 2573			Third Average	Difference Btwn. Third Average & SRM*
First Reading	Second Reading	Third Reading		
1.1	1.1	1.0	1.07	0.03

Fourth Calibration Check *(if required)*

NIST SRM 2573			Fourth Average	Difference Btwn. Fourth Average & SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	1.0	1.00	0.04

*If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check test.

Calibration Check Test Results

Name of Property Owner:	ALL Consulting	Inspector Name:	Mike Cole
Property Identification:	Fmr Howard Co Hos	Inspector Signature:	Mike Cole
Residence/Building Identification:	Nashville, AR	Inspection Date:	February 8, 2012

NIST SRM 2573: 1.04 mg/cm^3 Calibration Check Tolerance Used: 0.8 to 1.2 mg/cm^3

First Calibration Check

NIST SRM 2573			First Average	Difference Btwn. First Average & SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	1.0	1.00	0.04

Second Calibration Check

NIST SRM 2573			Second Average	Difference Btwn. Second Average & SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	1.1	1.03	0.01

Third Calibration Check *(if required)*

NIST SRM 2573			Third Average	Difference Btwn. Third Average & SRM*
First Reading	Second Reading	Third Reading		
1.0	1.0	1.0	1.00	0.04

Fourth Calibration Check *(if required)*

NIST SRM 2573			Fourth Average	Difference Btwn. Fourth Average & SRM*
First Reading	Second Reading	Third Reading		
1.0	1.1	1.1	1.07	0.03

*If the difference of the Calibration Check Average from the NIST SRM film value is greater than the specified Calibration Check Tolerance for this device, consult the manufacturer's recommendations to bring the instrument back into control. Retest all testing combinations tested since the last successful Calibration Check test.

APPENDIX C

NITON XLp 300 PERFORMANCE CHARACTERIZATION SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: **September 24, 2004** **EDITION NO.: 1**

MANUFACTURER AND MODEL:

Make: *Niton LLC*

Tested Model: *XLp 300*

Source: ^{109}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^2 (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 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 <u>not</u> needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick	1.0
	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 laboratory-measured lead levels (mg/cm^2)		
Substrate	25th Percentile	Median	75th Percentile	Pb < 0.25	0.25 ≤ 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 D

ANALYTICAL TEST REPORTS

Lead Paint Chip Collection Log

Project Number: 11-0117-085
Project Name: ALL Consulting - Howard County Hospital
Collection By: Mike Cole
Site Location: Former Howard County Hospital
Site Address: 800 West Leslie Street, Nashville, AR
Collection Date: February 8, 2012

Paint Chip Sample ID #	Substrate (C, B,W,P,D,M)	Component	Color	Location	Condition (I,F,P)	Average XRF Result	Lab Result	Units (mg/cm2, %)
01	C	Wall	White	1961 East Level 1 Dry Storage	I	<0.02	<0.001	mg/cm2
02	C	Wall	White/Blue	1961 East Level 1 Rest Room	I	<0.02	0.001	mg/cm2
03	C	Wall	White	1961 East Level 1 Walk-Ins	I	0.02	<0.001	mg/cm2
04	M	Door	White	1961 East Level 1 Elevator	I	0.04	0.002	mg/cm2
05	C/D	Wall	White	1961 East Level 1 Kitchen	I	0.02	<0.001	mg/cm2
06	C/D	Wall	White/Green	1961 East Level 1 Dining Room	I	<0.02	0.002	mg/cm2
07	M	Stair Face	Black	1961 East Level 1 Stairway	I	0.09	0.001	mg/cm2
08	C/D	Wall	White	1961 Lobby	I	<0.02	0.003	mg/cm2
09	C	Wall	Off-White	1961 West Level 1 Business Office	I	0.07	0.002	mg/cm2
10	D	Window Ledge	Off-White	1961 West Level 1 CFO Office	I	<0.02	<0.001	mg/cm2
11	C	Wall	Tan	1961 West Level 1 West Hallway	I	<0.02	0.002	mg/cm2
12	C	Window Ledge	Tan	1961 West Level 1 Medical Records	I	<0.02	<0.001	mg/cm2
13	C	Window Ledge	White	1961 West Level 1 Restroom	I	<0.02	0.002	mg/cm2
14	C/D	Wall	Blue	1961 West Level 1 Classroom	I	<0.02	0.001	mg/cm2
15	M	Door Frame	Gray	1961 West Level 1 Mech Room 11	I	0.18	0.004	mg/cm2
16	C	Wall	Off-White	1961 East Level 2 Room 259	I	<0.02	0.002	mg/cm2
17	C	Window Ledge	Off-White	1961 East Level 2 Room 261	I	<0.02	0.001	mg/cm2
18	C	Wall	Off-White	1961 East Level 2 Room 257	I	<0.02	0.001	mg/cm2
19	C	Wall	Off-White	1961 East Level 2 East Hallway	I	<0.02	0.002	mg/cm2
20	C	Window Ledge	White	1961 East Level 2 Classroom	I	0.05	0.002	mg/cm2

Substrate: C=Concrete, B=Brick, W=Wood, P=Plaster, D=Drywall, M=Metal
Condition: I=Intact, F=Fair, P=Poor

Lead Paint Chip Collection Log

Project Number: 11-0117-085
Project Name: ALL Consulting - Howard County Hospital
Collection By: Mike Cole
Site Location: Former Howard County Hospital
Site Address: 800 West Leslie Street, Nashville, AR
Collection Date: February 8, 2012

Paint Chip Sample ID #	Substrate (C, B,W,P,D,M)	Component	Color	Location	Condition (I,F,P)	Average XRF Result	Lab Result	Units (mg/cm2, %)
21	P/D	Wall	White	1961 East Level 2 Respiratory Therapy	I	0.02	<0.001	mg/cm2
22	C/D	Wall	White	1961 Level 2 Nurse's Station	I	<0.02	0.002	mg/cm2
23	C	Wall	Tan	1961 West Level 2 Room 251	I	0.02	0.001	mg/cm2
24	C	Wall	Tan	1961 West Level 2 Room 241	I	0.15	0.002	mg/cm2
25	C	Window Ledge	Tan	1961 West Level 2 Room 249	I	0.03	<0.001	mg/cm2
26	C	Wall	Off-White	1961 West Level 2 West Hallway	I	<0.02	0.002	mg/cm2
27	C	Wall	Tan	1961 West Level 2 Room 243	I	0.04	0.002	mg/cm2
28	C	Wall	Off-White	1961 West Level 2 Room 247	I	0.08	0.002	mg/cm2
29	M	Door Frame	Blue	1961 West Level 2 Room 245	I	0.04	0.012	mg/cm2

Substrate: C=Concrete, B=Brick, W=Wood, P=Plaster, D=Drywall, M=Metal
Condition: I=Intact, F=Fair, P=Poor

Lead Paint Chip Collection Log

Project Number: 11-0117-085
Project Name: ALL Consulting - Howard County Hospital
Collection By: Mike Cole
Site Location: Former Howard County Hospital
Site Address: 800 West Leslie Street, Nashville, AR
Collection Date: February 9, 2012

Paint Chip Sample ID #	Substrate (C, B,W,P,D,M)	Component	Color	Location	Condition (I,F,P)	Average XRF Result	Lab Result	Units (mg/cm2, %)
30	D	Wall	Tan	1949 East Level 2 Maintenance Office	I	0.03	<0.001	mg/cm2
31	M	Window Frame	Off-White	1949 East Level 2 Room 2	I	0.03	<0.001	mg/cm2
32	D	Wall	White	1949 East Level 2 Room 2	I	0.03	<0.001	mg/cm2
33	D	Wall	Tan	1949 East Level 2 Restroom	I	0.03	<0.001	mg/cm2
34	D	Wall	Tan	1949 East Level 2 Mech Room 4	I	<0.02	<0.001	mg/cm2
35	M	Cabinetry	Gray	1949 East Level 2 Staff Lounge	I	0.02	<0.001	mg/cm2
36	D	Wall	Off-White	1949 West Level 2 West Hallway	I	0.03	0.001	mg/cm2
37	D	Wall	Tan	1949 West Level 2 Mech Room 3	I	<0.02	<0.001	mg/cm2
38	D	Wall	Tan	1949 West Level 2 Critical Care 2	I	<0.02	0.002	mg/cm2
39	D	Wall	Tan	1949 West Level 2 Observation	I	0.03	<0.001	mg/cm2
40	M	Door Frame	Tan	1949 West Level 2 Critical Care	I	0.08	0.004	mg/cm2
41	D	Wall	Tan	1949 West Level 2 Restroom	I	0.02	0.003	mg/cm2
42	D	Wall	Tan/Orange	1949/1972 North Level 2 Room 270	I	0.03	0.002	mg/cm2
43	D	Wall	Off-White	1949/1972 North Level 2 Mech Room 2	I	<0.02	<0.001	mg/cm2
44	D	Wall	Tan	1949/1972 North Level 2 North Hallway	I	0.02	<0.001	mg/cm2
45	M	Fan Coil	Brown	1949/1972 North Level 2 Room 276	I	<0.02	<0.001	mg/cm2
46	D	Wall	Y/Burgundy	1949/1972 North Level 2 Family Room	I	<0.02	<0.001	mg/cm2
47	D	Wall	W/Pink	1972/1987 Level 2 CT Scan	I	3.6	<0.001	mg/cm2
48	D	Wall	W/Pink	1972/1987 Level 2 CT Scan Operator's Room	I	3.01	<0.001	mg/cm2
49	M	Door Frame	Off-White	1972/1987 Level 2 Nuclear Medicine	I	NA	0.012	mg/cm2

Substrate: C=Concrete, B=Brick, W=Wood, P=Plaster, D=Drywall, M=Metal
Condition: I=Intact, F=Fair, P=Poor

Lead Paint Chip Collection Log

Project Number: 11-0117-085
Project Name: ALL Consulting - Howard County Hospital
Collection By: Mike Cole
Site Location: Former Howard County Hospital
Site Address: 800 West Leslie Street, Nashville, AR
Collection Date: February 9, 2012

Paint Chip Sample ID #	Substrate (C, B,W,P,D,M)	Component	Color	Location	Condition (I,F,P)	Average XRF Result	Lab Result	Units (mg/cm2, %)
50	M	Door Frame	Off-White	1972/1987 Level 2 Cardio Rehab	I	0.03	0.011	mg/cm2
51	D	Wall	W/Pink	1972/1987 Level 2 Physical Therapy	I	0.02	<0.001	mg/cm2
52	D	Wall	W/Pink	1972/1987 Level 2 Restroom	I	0.02	<0.001	mg/cm2
53	D	Wall	Pink	1972/1987 Level 2 X-Ray #2	I	4.2	<0.001	mg/cm2
54	M	Door Frame	Off-White	1972/1987 Level 2 X-Ray #2	I	5.5	0.001	mg/cm2
55	D	Wall	Pink	1972/1987 Level 2 Dark Room	I	<0.02	<0.001	mg/cm2
56	M	Door Frame	Off-White	1972/1987 Level 2 X-Ray #1	I	14.9	<0.001	mg/cm2
57	D	Wall	Pink	1972/1987 Level 2 X-Ray #1	I	5.5	0.001	mg/cm2
58	D	Wall	W/Pink	1972/1987 Level 2 X-Ray #3	I	4.8	<0.001	mg/cm2
59	M	Door Frame	Off-White	1972/1987 Level 2 X-Ray #3	I	22.2	0.005	mg/cm2
60	D	Wall	Off-White	1972/1987 Level 2 U-Shaped Hallway	I	<0.02	0.001	mg/cm2
61	D	Wall	OW/Mauve	1972/1987 Level 2 Trauma #4	I	0.08	<0.001	mg/cm2
62	D	Wall	W/Pink	1972/1987 Level 2 Laboratory	I	<0.02	<0.001	mg/cm2
63	D	Wall	OW/Pink	1972/1987 Level 2 Waiting Room	I	<0.02	<0.001	mg/cm2
64	D	Wall	OW/Pink	1972/1987 Level 2 Trauma	I	<0.02	<0.001	mg/cm2
65	M	Door Frame	Off-White	1972/1987 Level 2 Consultation	I	<0.02	<0.001	mg/cm2
66	M	Cabinetry	Blue	1972/1987 Level 2 Sterilization Area	I	0.02	0.006	mg/cm2
67	M	Cabinetry	Yellow	1972/1987 Level 2 Operating Room	I	0.4	0.122	mg/cm2
68	D	Wall	Off-White	1972/1987 Level 2 Recovery Room	I	<0.02	<0.001	mg/cm2
69	C/D	Wall	Tan/White	1972/1987 Level 2 Mechanical Boiler Room	I	<0.02	<0.001	mg/cm2

Substrate: C=Concrete, B=Brick, W=Wood, P=Plaster, D=Drywall, M=Metal
Condition: I=Intact, F=Fair, P=Poor

Lead Paint Chip Collection Log

Project Number: 11-0117-085
Project Name: ALL Consulting - Howard County Hospital
Collection By: Mike Cole
Site Location: Former Howard County Hospital
Site Address: 800 West Leslie Street, Nashville, AR
Collection Date: February 9, 2012

Paint Chip Sample ID #	Substrate (C, B,W,P,D,M)	Component	Color	Location	Condition (I,F,P)	Average XRF Result	Lab Result	Units (mg/cm2, %)
70	C	Stair Face	Yellow	1972/1987 Level 2 Mechanical Boiler Room	I	<0.02	<0.001	mg/cm2
71	M	Hand Rail	Off-White	1972/1987 Level 2 Mechanical Boiler Room	I	0.05	0.019	mg/cm2
72	M	Boiler	Orange	1972/1987 Level 2 Mechanical Boiler Room	I	1.9	0.872	mg/cm2
73	C	Floor	Gray	1972/1987 Level 2 Mechanical Boiler Room	I	<0.02	<0.001	mg/cm2
74	D	Wall	Off-White	1972/1987 Level 1 North Stairwell	I	0.03	<0.001	mg/cm2
75	C	Wall	White	1972/1987 Level 1 Communications Room	I	<0.02	<0.001	mg/cm2
76	M	Door	Gray	1972/1987 Level 1 Mech Room 9	I	<0.02	<0.001	mg/cm2
77	W	Cabinetry	Gray	1972/1987 Level 1 Laboratory	I	<0.02	<0.001	mg/cm2
78	D	Wall	Pink/Gray	1972/1987 Level 1 Dialysis Room	I	0.04	<0.001	mg/cm2
79	W	Cabinetry	White	1972/1987 Level 1 Exam Room	I	<0.02	<0.001	mg/cm2
80	D	Wall	White	1949 West Level 1 Hospital Auxilary	I	0.03	<0.001	mg/cm2
81	D	Wall	White	1949 West Level 1 Medical Records	I	0.03	<0.001	mg/cm2
82	C/B	Wall	Off-White	1949 West Level 1 Mech Room	I	0.08	<0.001	mg/cm2
83	M	Stairs	White	1949 West Level 1 Spiral Staircase	I	0.15	0.029	mg/cm2
84	C/D	Wall	White	1949 West Level 1 Nurse's Station	I	<0.02	<0.001	mg/cm2
85	C	Wall	White	1949 West Level 1 West Hallway	I	<0.02	<0.001	mg/cm2
86	D	Wall	White	1949 West Level 1 Patient Room	I	<0.02	0.011	mg/cm2
87	M	Door Frame	Gray	1949 West Level 1 Conference Room	I	0.08	0.013	mg/cm2
88	D	Wall	White	1949 East Level 1 East Hallway	I	<0.02	<0.001	mg/cm2
89	M	Door Frame	Gray	1949 East Level 1 Human Resources	I	0.15	<0.001	mg/cm2

Substrate: C=Concrete, B=Brick, W=Wood, P=Plaster, D=Drywall, M=Metal
Condition: I=Intact, F=Fair, P=Poor

Lead Paint Chip Collection Log

Project Number: 11-0117-085
Project Name: ALL Consulting - Howard County Hospital
Collection By: Mike Cole
Site Location: Former Howard County Hospital
Site Address: 800 West Leslie Street, Nashville, AR
Collection Date: February 9, 2012

Paint Chip Sample ID #	Substrate (C, B,W,P,D,M)	Component	Color	Location	Condition (I,F,P)	Average XRF Result	Lab Result	Units (mg/cm2, %)
90	C	Wall	White	1949 Level 1 Central Stairway	I	0.03	0.009	mg/cm2
91	M	Door Frame	Brown	1949 East Level 1 Restroom	I	0.03	<0.001	mg/cm2
92	P/D	Wall	White	1949 East Level 1 Central Supply	I	0.06	0.006	mg/cm2
93	M	Window Frame	Pink	1949/1961 East Exterior Connection	P	0.4	0.095	mg/cm2
94	W	Bio Hazard Door	Off-White	1961 East Exterior	P	0.03	<0.001	mg/cm2
95	M	Door Frame	Brown	1961 East Exterior	F	0.04	0.007	mg/cm2
96	M	Downspout	White	1961 East Exterior	P	0.05	0.013	mg/cm2
97	M	Hand Rail	Gray	1949 East Exterior	F	0.03	<0.001	mg/cm2
98	M	Safety Railing @ High Voltage	Yellow	1949/1972 North Exterior	F	0.03	0.002	mg/cm2
99	W	Fascia	Tan	Pump House Exterior	P	<0.02	<0.001	mg/cm2
100	M	Door	Pink	1972/1987 West Exterior	I	0.03	0.2181	mg/cm2
101	M	Window Frame	Pink	1949 West Exterior	P	0.07	<0.001	mg/cm2
102	B	Siding	Brown	1961 West Exterior	I	<0.02	<0.001	mg/cm2
103	M	Window Lintel	Brown	1961 West Exterior	F	0.3	0.078	mg/cm2

Substrate: C=Concrete, B=Brick, W=Wood, P=Plaster, D=Drywall, M=Metal
Condition: I=Intact, F=Fair, P=Poor

Schneider Laboratories, Inc.
2512 West Cary Street Richmond, Virginia 23220-5117
804-353-6778 * 800-785-LABS (5227) * Fax 804-359-1475
www.slabinc.com e-mail: lab@slabinc.com

Submitting Co. Environmental Enterprise Group, Inc.
220 North Knoxville, Suite 200
Russellville, AR 72801-4419

Lab Use-WC# 847-12-1855
Acct # 847
Phone # (479) 968-6767
FAX # (479) 968-1956

Project Name ALL Consulting
Project Location Former Howard Co. Hosp.
Project Number 11-0117-085
Purchase Order No.

Special Instructions [include requests for special reporting or data packages]
Please e-mail report and signed coc to sness@eegonline.com
Please include QC with report.
STATE WHERE SAMPLES WERE COLLECTED AR

Turn Around Time
[ ] 6-8 hours*
[ ] 24 hours*
[ ] 48 hours*
[ ] 72 hour*
[x] STANDARD (5 days)
[ ] Standard Full TCLP (10d)
[ ] Weekend*
[ ] _____
* not available for all tests
Schedule rush organics & weekend tests in advance.

Matrix / Sample Type (Select ONE)
All samples on form should be of SAME matrix type. Use additional forms as needed.
[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water, Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [ ] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ] _____
[ ] Soil [ ] _____

Tests / Analytes (Select ALL that Apply)

Asbestos Air / Fiber Counts
[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
[ ] TEM (EPA Level II)
[ ] _____

Miscellaneous Tests
[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0600)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

Asbestos Bulk / Asb ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 199.1/.4
[ ] CAELAP (EPA Interim)
[ ] TEM (Chatfield)
[ ] _____

FOR ASBESTOS AIR:
TYPE OF RESPIRATOR USED: _____

Metals-Total Conc.
[X] Lead
[ ] RCRA Metals
[ ] _____
[ ] _____

Metals-Total Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ] _____
[ ] _____

ORGANICS TESTS and other Analyses
NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate analysis method for organics tests.

Sample #	Date Sampled	Organics Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes Wiped Area (ft²)	Type[1] A,B,P,E	Information for Air Samples Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	Organics # containers
11-0117-085 -PC01	2/8/12			1 cm²							
11-0117-085 -PC02	2/8/12			1 cm²							
11-0117-085 -PC03	2/8/12			1 cm²							
11-0117-085 -PC04	2/8/12			1 cm²							
11-0117-085 -PC05	2/8/12			1 cm²							
11-0117-085 -PC06	2/8/12			1 cm²							
11-0117-085 -PC07	2/8/12			1 cm²							
11-0117-085 -PC08	2/8/12			1 cm²							
11-0117-085 -PC09	2/8/12			1 cm²							
11-0117-085 -PC10	2/8/12			1 cm²							
11-0117-085 -PC11	2/8/12			1 cm²							
11-0117-085 -PC12	2/8/12			1 cm²							
11-0117-085 -PC13	2/8/12			1 cm²							
11-0117-085 -PC14	2/8/12			1 cm²							
11-0117-085 -PC15	2/8/12			1 cm²							

WorkOrderKey
V: \868\868109

0834

RECEIVED
FEB 2012
BY:

Sample Collection & Custody Information
[1]Type: A=area B=blank P=personnel E=excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters (time in min * flow in L/min)

Sampled by [NAME] J. Waldo & M. Cole [SIGNATURE] [DATE/TIME] 2/8/12
Relinquished by [NAME] Mike Cole [SIGNATURE] [DATE/TIME] 2/13/12 @ 1600
Received by [NAME] [SIGNATURE] [DATE/TIME] 2-14-12
[ ]FX [ ]AB [ ]UPS [ ]USM [ ]HD [ ]DB [ ]COURIER
Unusual Sample Condition Noted: WAYBILL #

[ ] Sample return requested
[ ] Ambient temp [ ] Cool ___°C
[ ] pH ___ [ ] Cl ___ [ ]R [ ]S

Chain-of-Custody documentation continued internally within lab.

Carefully read the terms and conditions printed on the back of this form.

Schneider Laboratories, Inc.

2512 West Cary Street Richmond, Virginia 23220-5117
804-353-6778 * 800-785-LABS (5227) * Fax 804-359-1475
www.slabinc.com e-mail: lab@slabinc.com

Submitting Co. Environmental Enterprise Group, Inc.
220 North Knoxville, Suite 200
Russellville, AR 72801-4419

Lab Use-WO#

Acct # 847

Phone # (479) 968-6767

FAX # (479) 968-1956

Project Name: ALL Consulting
Project Location: Former Howard Co. Hosp.
Project Number: 11-0117-085
Purchase Order No.:

Special Instructions [include requests for special reporting or data packages]
Please e-mail report and signed coc to sness@eegonline.com
Please include QC with report.
STATE WHERE SAMPLES WERE COLLECTED AR

Turn Around Time
[ ] 6-8 hours*
[ ] 24 hours*
[ ] 48 hours*
[ ] 72 hour*
[x] STANDARD (5 days)
[ ] Standard Full TCLP (10d)
[ ] Weekend*
[ ] _____
* not available for all tests
Schedule rush organics & weekend tests in advance.

Matrix / Sample Type (Select ONE)
All samples on form should be of SAME matrix type. Use additional forms as needed.
[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water, Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [ ] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ] _____
[ ] Soil [ ] _____

Tests / Analytes (Select ALL that Apply)

Asbestos/Air / Fiber Counts
[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
[ ] TEM (EPA Level II)
[ ] _____

Asbestos Bulk / Asb ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 198.1/.4
[ ] CAELAP (EPA Interim)
[ ] TEM (Chatfield)
[ ] _____

FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED: _____

Metals-Total Conc.
[X] Lead
[ ] RCRA Metals
[ ] _____
[ ] _____

Miscellaneous Tests
[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0600)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

Metals-Total Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ] _____
[ ] _____

ORGANICS TESTS and other Analyses
NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type.
Indicate analysis method for organics tests.

Sample #	Date Sampled	Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes: Wiped Area (ft²)	Type[1] A,B,P,E	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	# containers
11-0117-085 -PC16	2/8/12			1 cm²							
11-0117-085 -PC17	2/8/12			1 cm²							
11-0117-085 -PC18	2/8/12			1 cm²							
11-0117-085 -PC19	2/8/12			1 cm²							
11-0117-085 -PC20	2/8/12			1 cm²							
11-0117-085 -PC21	2/8/12			1 cm²							
11-0117-085 -PC22	2/8/12			1 cm²							
11-0117-085 -PC23	2/8/12			1 cm²							
11-0117-085 -PC24	2/8/12			1 cm²							
11-0117-085 -PC25	2/8/12			1 cm²							
11-0117-085 -PC26	2/8/12			1 cm²							
11-0117-085 -PC27	2/8/12			1 cm²							
11-0117-085 -PC28	2/8/12			1 cm²							
~~11-0117-085 -PC29~~	~~2/8/12~~			1 cm²							
11-0117-085 -PC30	2/9/12			1 cm²							

Type: A=area B=blank P=personal E=exclusion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters (time in min x flow in L/min)

Sample Collection & Custody Information

Sampled by [NAME] J. Waldo & M. Cole [SIGNATURE] [DATE/TIME] 2/8/12 & 2/9/12
Relinquished by [NAME] Mike Cole [SIGNATURE] [DATE/TIME] 2/13/12 @ 1600
Received by [NAME] [SIGNATURE] [DATE/TIME] 2-14-12
[ ]FX [ ]AB [ ]UPS [ ]USM [ ]HD [ ]DB [ ]COURIER
Unusual Sample Condition Noted: WAYBILL #

[ ] Sample return requested
[ ] Ambient temp [ ] Cool ____°C
[ ] pH ___ [ ] Cl ___ [ ] R [ ] S

Chain-of-Custody documentation continued internally within lab.

Carefully read the terms and conditions printed on the back of this form.

Schneider Laboratories, Inc.

2512 West Cary Street Richmond, Virginia 23220-5117
804-353-6778 * 800-785-LABS (5227) * Fax 804-359-1475
www.slabinc.com e-mail: lab@slabinc.com

Submitting Co. Environmental Enterprise Group, Inc.
220 North Knoxville, Suite 200
Russellville, AR 72801-4419

Lab Use-WO#

Acct # 847

Phone # (479) 968-6767

FAX # (479) 968-1956

Project Name: ALL Consulting
Project Location: Former Howard Co. Hosp.
Project Number: 11-0117-085
Purchase Order No.:

Special Instructions [include requests for special reporting or data packages]
Please e-mail report and signed coc to sness@eegonline.com
Please include QC with report.
STATE WHERE SAMPLES WERE COLLECTED AR

Turn Around Time

[ ] 6-8 hours*
[ ] 24 hours*
[ ] 48 hours*
[ ] 72 hour*
[x] STANDARD (5 days)
[ ] Standard Full TCLP (10d)
[ ] Weekend*
[ ] _____
* not available for all tests
Schedule rush organics & weekend tests in advance.

Matrix / Sample Type (Select ONE)

All samples on form should be of SAME matrix type. Use additional forms as needed.

[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water,Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [ ] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ] _____
[ ] Soil [ ] _____

Tests / Analytes (Select ALL that Apply)

Asbestos Air / Fiber Counts
[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
[ ] TEM (EPA Level II)
[ ] _____

Miscellaneous Tests
[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0600)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

Asbestos Bulk / Ast ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 198.1/.4
[ ] CAELAP (EPA Interim)
[ ] TEM (Chatfield)
[ ] _____

FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:

Metals-Total Conc.
[X] Lead
[ ] RCRA Metals
[ ] _____
[ ] _____

Metals-Total Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ] _____
[ ] _____

ORGANICS TESTS and other Analyses

NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate analysis method for organics tests.

Sample #	Date Sampled	Organics Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes Wiped Area (ft²)	Type[1] A,B,P,E	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	Organics # containers						
11-0117-085 -PC31	2/9/12			1 cm²													
11-0117-085 -PC32	2/9/12			1 cm²													
11-0117-085 -PC33	2/9/12			1 cm²													
11-0117-085 -PC34	2/9/12			1 cm²													
11-0117-085 -PC35	2/9/12			1 cm²													
11-0117-085 -PC36	2/9/12			1 cm²													
11-0117-085 -PC37	2/9/12			1 cm²													
11-0117-085 -PC38	2/9/12			1 cm²													
11-0117-085 -PC39	2/9/12			1 cm²													
11-0117-085 -PC40	2/9/12			1 cm²													
11-0117-085 -PC41	2/9/12			1 cm²													
11-0117-085 -PC42	2/9/12			1 cm²													
11-0117-085 -PC43	2/9/12			1 cm²													
11-0117-085 -PC44	2/9/12			1 cm²													
11-0117-085 -PC45	2/9/12			1 cm²													

Information for Air Samples

[1]Type: Aerosol Blank, Personal Exposure [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters (time in min * flow in L/min)

Sample Collection & Custody Information

Sampled by [NAME] J. Waldo & M. Cole [SIGNATURE] [DATE/TIME] 2/9/12
Relinquished by [NAME] Mike Cole [SIGNATURE] [DATE/TIME] 2/13/12 @ 1600
Received by [NAME] [SIGNATURE] [DATE/TIME] 2-14-12
[ ]FX [ ]AB [ ]UPS [ ]USM [ ]HD [ ]DB [ ]COURIER
Unusual Sample Condition Noted: WAYBILL #

[ ] Sample return requested
[ ] Ambient temp [ ] Cool ___°C
[ ] pH ___ [ ] Cl ___ [ ]R [ ]S

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Lab Use-WCB

Acct # 847

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Project Location: Former Howard Co. Hosp.
Project Number: 11-0117-085
Purchase Order No.:

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Please e-mail report and signed coc to sness@eegonline.com
Please include QC with report.
STATE WHERE SAMPLES WERE COLLECTED AR

Phone # (479) 968-6767
FAX # (479) 968-1956

Turn Around Time
[ ] 6-8 hours*
[ ] 24 hours*
[ ] 48 hours*
[ ] 72 hour*
[x] STANDARD (5 days)
[ ] Standard Full TCLP (10d)
[ ] Weekend*
[ ] _____
* not available for all tests
Schedule rush organics & weekend tests in advance.

Matrix / Sample Type (Select ONE)
All samples on form should be of SAME matrix type. Use additional forms as needed.
[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water, Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [ ] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ] _____
[ ] Soil [ ] _____

Tests / Analytes (Select ALL that Apply)

Asbestos Air / Fiber Counts
[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
[ ] TEM (EPA Level II)
[ ] _____

Miscellaneous Tests
[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0500)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

Asbestos Bulk / Asb ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 198.1/.4
[ ] CAELAP (EPA Interim)
[ ] TEM (Chatfield)
[ ] _____

FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:

Metals-Total Conc.
[X] Lead
[ ] RCRA Metals
[ ] _____
[ ] _____

Metals-Total Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ] _____
[ ] _____

ORGANICS TESTS and other Analyses
NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate analysis method for organics tests.

Sample #	Date Sampled	Organics Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes Wipe Area (ft²)	Type[1] A,B,P,E	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	Organics # containers
11-0117-085 -PC46	2/9/12			1 cm²							
11-0117-085 -PC47	2/9/12			1 cm²							
11-0117-085 -PC48	2/9/12			1 cm²							
11-0117-085 -PC49	2/9/12			1 cm²							
11-0117-085 -PC50	2/9/12			1 cm²							
11-0117-085 -PC51	2/9/12			1 cm²							
11-0117-085 -PC52	2/9/12			1 cm²							
11-0117-085 -PC53	2/9/12			1 cm²							
11-0117-085 -PC54	2/9/12			1 cm²							
11-0117-085 -PC55	2/9/12			1 cm²							
11-0117-085 -PC56	2/9/12			1 cm²							
11-0117-085 -PC57	2/9/12			1 cm²							
11-0117-085 -PC58	2/9/12			1 cm²							
11-0117-085 -PC59	2/9/12			1 cm²							
11-0117-085 -PC60	2/9/12			1 cm²							

[1] Type: A=area B=blank P=personal E=excursion [2] Beginning/End of Sample Period [3] Pump Calibration in Liters/Minute [4] Volume in Liters [time in min * flow in L/min]

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Relinquished by [NAME] Mike Cole [SIGNATURE] [DATE/TIME] 2/13/12 @ 1600
Received by [NAME] [SIGNATURE] [DATE/TIME] 2/14/12
[ ]FX [ ]AB [ ]UPS [ ]USM [ ]HD [ ]DB [ ]COURIER
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[ ] Sample return requested
[ ] Ambient temp [ ] Cool ___°C
[ ] pH ___ [ ] Cl ___ [ ] R [ ] S

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Please include QC with report.
STATE WHERE SAMPLES WERE COLLECTED AR

Turn Around Time
[ ] 8-8 hours*
[ ] 24 hours*
[ ] 48 hours*
[ ] 72 hour*
[x] STANDARD (5 days)
[ ] Standard Full TCLP (10d)
[ ] Weekend*
[ ] _____
* not available for all tests
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Matrix / Sample Type (Select ONE)
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[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water,Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [ ] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ] _____
[ ] Soil [ ] _____

Tests / Analytes (Select ALL that Apply)

Asbestos Air / Fiber Counts
[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
[ ] TEM (EPA Level II)
[ ]

Asbestos Bulk / Ash ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 198.1/.4
[ ] CAELAP (EPA Interim)
[ ] TEM (Chatfield)
[ ]

Metals-Total Conc.
[X] Lead
[ ] RCRA Metals
[ ] _____
[ ]

Miscellaneous Tests
[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0600)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

FOR ASBESTOS AIR:
TYPE OF RESPIRATOR USED:

Metals-Total Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ] _____
[ ]

ORGANICS TESTS and other Analyses
NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate analysis method for organics tests.

Sample #	Date Sampled	Organics Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes Wiped Area (ft)	Type[1] A,B,P,E	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	Organics # containers						
11-0117-085 -PC61	2/9/12			1 cm²													
11-0117-085 -PC62	2/9/12			1 cm²													
11-0117-085 -PC63	2/9/12			1 cm²													
11-0117-085 -PC64	2/9/12			1 cm²													
11-0117-085 -PC65	2/9/12			1 cm²													
11-0117-085 -PC66	2/9/12			1 cm²													
11-0117-085 -PC67	2/9/12			1 cm²													
11-0117-085 -PC68	2/9/12			1 cm²													
11-0117-085 -PC69	2/9/12			1 cm²													
11-0117-085 -PC70	2/9/12			1 cm²													
11-0117-085 -PC71	2/9/12			1 cm²													
11-0117-085 -PC72	2/9/12			1 cm²													
11-0117-085 -PC73	2/9/12			1 cm²													
11-0117-085 -PC74	2/9/12			1 cm²													
11-0117-085 -PC75	2/9/12			1 cm²													

[1]Type: A=Area B=Blank P=Personal E=Excursion [2]Begin/End of Sample Period [3]Pump Calibration In Liters/Minute [4]Volume In Liters (time in min * flow in L/min)

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[ ]FX [ ]AB [ ]UPS [ ]USM [ ]HD [ ]DB [ ]COURIER
Unusual Sample Condition Noted: WAYBILL #

[ ] Sample return requested
[ ] Ambient temp [ ] Cool ____°C
[ ] pH ____ [ ] Cl ____ [ ]R [ ]S

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STATE WHERE SAMPLES WERE COLLECTED AR

Turn Around Time
[ ] 6-8 hours*
[ ] 24 hours*
[ ] 48 hours*
[ ] 72 hour*
[X] STANDARD (5 days)
[ ] Standard Full TCLP (10d)
[ ] Weekend*
[ ] _____
* not available for all tests
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Matrix / Sample Type (Select ONE)
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[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water,Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ] _____
[ ] Soil [ ] _____

Tests / Analytes (Select ALL that Apply)

Asbestos Air / Fiber Counts
[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
[ ] TEM (EPA Level II)
[ ] _____

Asbestos Bulk / Asb ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 198.1/.4
[ ] CAELAP (EPA Interim)
[ ] TEM (Chatfield)
[ ] _____

FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:

Metals-Total Conc.
[X] Lead
[ ] RCRA Metals
[ ] _____
[ ] _____

Miscellaneous Tests
[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0600)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

Metals-Total Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ] _____
[ ] _____

ORGANICS TESTS and other Analyses
NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate analysis method for organics tests.

Sample #	Date Sampled	Organics Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes Wiped Area (ft²)	Type[1] A,W,B	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	Organics # containers
11-0117-085 -PC76	2/9/12			1 cm²							
11-0117-085 -PC77	2/9/12			1 cm²							
11-0117-085 -PC78	2/9/12			1 cm²							
11-0117-085 -PC79	2/9/12			1 cm²							
11-0117-085 -PC80	2/9/12			1 cm²							
11-0117-085 -PC81	2/9/12			1 cm²							
11-0117-085 -PC82	2/9/12			1 cm²							
11-0117-085 -PC83	2/9/12			1 cm²							
11-0117-085 -PC84	2/9/12			1 cm²							
11-0117-085 -PC85	2/9/12			1 cm²							
11-0117-085 -PC86	2/9/12			1 cm²							
11-0117-085 -PC87	2/9/12			1 cm²							
11-0117-085 -PC88	2/9/12			1 cm²							
11-0117-085 -PC89	2/9/12			1 cm²							
11-0117-085 -PC90	2/9/12			1 cm²							

[1]Type: A=area B=blank P=personal E=extraction [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters (time in min * flow in L/min)

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[ ] Sample return requested
[ ] Ambient temp [ ] Cool ___°C
[ ] pH ___ [ ] Cl ___ [ ] R [ ] S

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[ ] 6-8 hours*
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[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water,Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [ ] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ] _____
[ ] Soil [ ] _____

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[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
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[ ] _____

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[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0600)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

Asbestos Bulk / Ash ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 198.1/.4
[ ] CAELAP (EPA Interim)
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[ ] _____

FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:

Metals-Total-Conc.
[X] Lead
[ ] RCRA Metals
[ ] _____
[ ] _____

Metals-Total-Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ] _____
[ ] _____

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Sample #	Date Sampled	Organics Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes Wiped Area (ft²)	Type[1] A,B,P,E	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	Organics # containers
11-0117-085 -PC91	2/9/12			1 cm²							
11-0117-085 -PC92	2/9/12			1 cm²							
11-0117-085 -PC93	2/9/12			1 cm²							
11-0117-085 -PC94	2/9/12			1 cm²							
11-0117-085 -PC95	2/9/12			1 cm²							
11-0117-085 -PC96	2/9/12			1 cm²							
11-0117-085 -PC97	2/9/12			1 cm²							
11-0117-085 -PC98	2/9/12			1 cm²							
11-0117-085 -PC99	2/9/12			1 cm²							
11-0117-085 -PC100	2/9/12			1 cm²							
11-0117-085 -PC101	2/9/12			1 cm²							
11-0117-085 -PC102	2/9/12			1 cm²							
11-0117-085 -PC103	2/9/12			1 cm²							
11-0117-085 -PC104	2/9/12			1 cm²							
11-0117-085 -PC105	2/9/12			1 cm²							

[1]Type: A=area B=blank P=personal E=excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters [time in min * flow in L/min]

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Received by [NAME] [SIGNATURE] [DATE/TIME] 2-14-12
[ ]FX [ ]AB [ ]UPS [ ]USM [ ]HD [ ]DB [ ]COURIER
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[ ] Sample return requested
[ ] Ambient temp [ ] Cool ___°C
[ ] pH ___ [ ] Cl ___ [ ] R [ ] S

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Special Instructions [include requests for special reporting or data packages]
Please e-mail report and signed coc to sness@eegonline.com
Please include QC with report.
STATE WHERE SAMPLES WERE COLLECTED AR

Turn Around Time

[ ] 6-8 hours*
[ ] 24 hours*
[ ] 48 hours*
[ ] 72 hour*
[x] STANDARD (5 days)
[ ] Standard Full TCLP (10d)
[ ] Weekend*
[ ]_____

* not available for all tests
Schedule rush organics & weekend tests in advance.

Matrix / Sample Type (Select ONE)

All samples on form should be of SAME matrix type. Use additional forms as needed.

[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water,Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [ ] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ]_____
[ ] Soil [ ]_____

Tests / Analytes (Select ALL that Apply)

Asbestos Air / Fiber Counts
[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
[ ] TEM (EPA Level II)
[ ]

Asbestos Bulk / Ash ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 198.1/.4
[ ] CAELAP (EPA Interim)
[ ] TEM (Chatfield)
[ ]

Metals-Total Conc.
[X] Lead
[ ] RCRA Metals
[ ]_____
[ ]

Miscellaneous Tests
[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0600)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

FOR ASBESTOS AIR:
TYPE OF RESPIRATOR USED:

Metals-Total Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ]_____
[ ]

ORGANICS TESTS and other Analyses

NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate analysis method for organics tests.

Sample #	Date Sampled	Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes: Wiped Area (ft²)	Air: Type[1] A/B/P/E	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	# containers	Organics					
11-0117-085 -PC106	2/9/12			1 cm²													
11-0117-085 -PC107	2/9/12			1 cm²													
11-0117-085 -PC108	2/9/12			1 cm²													
11-0117-085 -PC109	2/9/12			1 cm²													
11-0117-085 -PC110	2/9/12			1 cm²													
11-0117-085 -PC111	2/9/12			1 cm²													
11-0117-085 -PC112	2/9/12			1 cm²													
11-0117-085 -PC113	2/9/12			1 cm²													
11-0117-085 -PC114	2/9/12			1 cm²													
11-0117-085 -PC115	2/9/12			1 cm²													
11-0117-085 -PC116	2/9/12			1 cm²													
11-0117-085 -PC117	2/9/12			1 cm²													
11-0117-085 -PC118	2/9/12			1 cm²													
11-0117-085 -PC119	2/9/12			1 cm²													
11-0117-085 -PC120	2/9/12			1 cm²													

[1]Type: A=area B=blank P=personal E=excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters (time in min * flow in L/min)

Sample Collection & Custody Information

Sampled by [NAME] J. Waldo & M. Cole [SIGNATURE] [DATE/TIME] 2/9/12
Relinquished by [NAME] Mike Cole [SIGNATURE] [DATE/TIME] 2/13/12 @ 1600
Received by [NAME] [SIGNATURE] [DATE/TIME] 2-14-12
[ ]FX [ ]AB [ ]UPS [ ]USM [ ]HD [ ]DB [ ]COURIER
Unusual Sample Condition Noted: WAYBILL #

[ ] Sample return requested
[ ] Ambient temp [ ] Cool ___°C
[ ] pH ___ [ ] Cl ___ [ ]R [ ]S

Chain-of-Custody documentation continued internally within lab.

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www.slabinc.com e-mail: lab@slabinc.com

Submitting Co. Environmental Enterprise Group, Inc.
220 North Knoxville, Suite 200
Russellville, AR 72801-4419

Lab Use-WO#

Acct # 847

Phone # (479) 968-6767

FAX # (479) 968-1956

Project Name: ALL Consulting
Project Location: Former Howard Co. Hosp.
Project Number: 11-0117-085
Purchase Order No.:

Special Instructions [include requests for special reporting or data packages]
Please e-mail report and signed coc to sness@eegonline.com
Please include QC with report.
STATE WHERE SAMPLES WERE COLLECTED AR

Turn Around Time
[ ] 6-8 hours*
[ ] 24 hours*
[ ] 48 hours*
[ ] 72 hour*
[x] STANDARD (5 days)
[ ] Standard Full TCLP (10d)
[ ] Weekend*
[ ] _____
* not available for all tests
Schedule rush organics & weekend tests in advance.

Matrix / Sample Type (Select ONE)
All samples on form should be of SAME matrix type. Use additional forms as needed.
[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water,Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [ ] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ] _____
[ ] Soil [ ] _____

Tests / Analytes (Select ALL that Apply)

Asbestos Air / Fiber Counts
[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
[ ] TEM (EPA Level II)
[ ] _____

Asbestos Bulk / Ash ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 198.1/.4
[ ] CAELAP (EPA Interim)
[ ] TEM (Chatfield)
[ ] _____

Metals-Total Conc.
[X] Lead
[ ] RCRA Metals
[ ] _____
[ ] _____

Miscellaneous Tests
[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0600)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

FOR ASBESTOS AIR:
TYPE OF RESPIRATOR USED:

Metals-Total Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ] _____
[ ] _____

ORGANICS TESTS and other Analyses
NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate analysis method for organics tests.

Sample #	Date Sampled	Organics Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes Wiped Area (ft²)	Type[1] A,B,P,E	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	Organics # containers						
11-0117-085 -PC121	2/9/12			1 cm²													
11-0117-085 -PC122	2/9/12			1 cm²													
11-0117-085 -PC123	2/9/12			1 cm²													
11-0117-085 -PC124	2/9/12			1 cm²													
11-0117-085 -PC125	2/9/12			1 cm²													
11-0117-085 -PC126	2/9/12			1 cm²													
11-0117-085 -PC127	2/9/12			1 cm²													
11-0117-085 -PC128	2/9/12			1 cm²													
11-0117-085 -PC129	2/9/12			1 cm²													
11-0117-085 -PC130	2/9/12			1 cm²													
11-0117-085 -PC131	2/9/12			1 cm²													
11-0117-085 -PC132	2/9/12			1 cm²													
11-0117-085 -PC133	2/9/12			1 cm²													
11-0117-085 -PC134	2/9/12			1 cm²													
11-0117-085 -PC135	2/9/12			1 cm²													

[1]Type: A=area B=blank P=personal E=excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters (time in min * flow in L/min)

Sample Collection & Custody Information

Sampled by [NAME] J. Waldo & M. Cole [SIGNATURE] [DATE/TIME] 2/9/12
Relinquished by [NAME] Mike Cole [SIGNATURE] [DATE/TIME] 2/13/12 @ 1600
Received by [NAME] [SIGNATURE] [DATE/TIME] 2-13-12
[ ]FX [ ]AB [ ]UPS [ ]USM [ ]HD [ ]DB [ ]COURIER
Unusual Sample Condition Noted: WAYBILL #

[ ] Sample return requested
[ ] Ambient temp [ ] Cool ___°C
[ ] pH ___ [ ] Cl ___ [ ]R [ ]S

Chain-of-Custody documentation continued internally within lab.

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Submitting Co. Environmental Enterprise Group, Inc.
220 North Knoxville, Suite 200
Russellville, AR 72801-4419

Lab Use-WO#

Acct # 847

Phone # (479) 968-6767

FAX # (479) 968-1956

Project Name: ALL Consulting
Project Location: Former Howard Co. Hosp.
Project Number: 11-0117-085
Purchase Order No.:

Special Instructions [include requests for special reporting or data packages]
Please e-mail report and signed coc to sness@eegonline.com
Please include QC with report.
STATE WHERE SAMPLES WERE COLLECTED AR

Turn Around Time
[ ] 6-8 hours*
[ ] 24 hours*
[ ] 48 hours*
[ ] 72 hour*
[x] STANDARD (5 days)
[ ] Standard Full TCLP (10d)
[ ] Weekend*
[ ] _____
* not available for all tests
Schedule rush organics & weekend tests in advance.

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All samples on form should be of SAME matrix type. Use additional forms as needed.
[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water,Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [ ] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ] _____
[ ] Soil [ ] _____

Tests / Analytes (Select ALL that Apply)

Asbestos Air / Fiber Counts
[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
[ ] TEM (EPA Level II)
[ ] _____

Miscellaneous Tests
[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0600)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

Asbestos Bulk / Ash ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 198.1/.4
[ ] CAELAP (EPA Interim)
[ ] TEM (Chatfield)
[ ] _____

FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED: _____

Metals-Total Conc.
[X] Lead
[ ] RCRA Metals
[ ] _____
[ ] _____

Metals-Total Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ] _____
[ ] _____

ORGANICS TESTS and other Analysis
NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate analysis method for organics tests.

Sample #	Date Sampled	Organics: Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes: Wiped Area (m²)	Type[1] A,B,P,Z	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	Organics: # containers
11-0117-085 -PC136	2/9/12			1 cm²							
11-0117-085 -PC137	2/9/12			1 cm²							
11-0117-085 -PC138	2/9/12			1 cm²							
11-0117-085 -PC139	2/9/12			1 cm²							
11-0117-085 -PC140	2/9/12			1 cm²							
11-0117-085 -PC141	2/9/12			1 cm²							
11-0117-085 -PC142	2/9/12			1 cm²							
11-0117-085 -PC143	2/9/12			1 cm²							
11-0117-085 -PC144	2/9/12			1 cm²							
11-0117-085 -PC145	2/9/12			1 cm²							
11-0117-085 -PC146	2/9/12			1 cm²							
11-0117-085 -PC147	2/9/12			1 cm²							
11-0117-085 -PC148	2/9/12			1 cm²							
11-0117-085 -PC149	2/9/12			1 cm²							
11-0117-085 -PC150	2/9/12			1 cm²							

[1]Type: A=Air B=Blank P=Personal S=Excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters [time in min * flow in L/min]

Sample Collection & Custody Information

Sampled by [NAME] J. Waldo & M. Cole [SIGNATURE] [DATE/TIME] 2/9/12
Relinquished by [NAME] Mike Cole [SIGNATURE] [DATE/TIME] 2/13/12 @ 1600
Received by [NAME] _____ [SIGNATURE] _____ [DATE/TIME] 2-14-12
[ ]FX [ ]AB [ ]UPS [ ]USM [ ]HD [ ]DB [ ]COURIER _____
Unusual Sample Condition Noted: _____ WAYBILL # _____

[ ] Sample return requested
[ ] Ambient temp [ ] Cool ___°C
[ ] pH ___ [ ] Cl ___ [ ]R [ ]S

Chain-of-Custody documentation continued internally within lab.

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Lab Use-WO#

Acct # 847

Phone # (479) 968-6767

FAX # (479) 968-1956

Project Name ALL Consulting
Project Location Former Howard Co. Hosp.
Project Number 11-0117-085
Purchase Order No.

Special instructions [include requests for special reporting or data packages]
Please e-mail report and signed coc to sness@eegonline.com
Please include QC with report.
STATE WHERE SAMPLES WERE COLLECTED AR

Turn Around Time
[ ] 6-8 hours*
[ ] 24 hours*
[ ] 48 hours*
[ ] 72 hour*
[x] STANDARD (5 days)
[ ] Standard Full TCLP (10d)
[ ] Weekend*
[ ] _____
* not available for all tests
Schedule rush organics & weekend tests in advance.

Matrix / Sample Type (Select ONE)
All samples on form should be of SAME matrix type. Use additional forms as needed.
[ ] Air [ ] Solid
[ ] Aqueous [ ] Waste
[ ] Bulk [ ] Wastewater
[ ] Hi-Vol Filter (PM10) [ ] Water,Drinking
[ ] Hi-Vol Filter (TSP) [ ] Compliance
[ ] Oil [ ] Wipe
[X] Paint [ ] Wipe, Composite
[ ] Sludge [ ] _____
[ ] Soil [ ] _____

Tests / Analytes (Select ALL that Apply)

Asbestos Air / Fiber Counts
[ ] PCM (NIOSH 7400)
[ ] TEM (AHERA)
[ ] TEM (EPA Level II)
[ ] _____

Miscellaneous Tests
[ ] Total Dust (NIOSH 0500)
[ ] Resp. Dust (NIOSH 0600)
[ ] Silica - FTIR (NIOSH 7602)
[ ] Silica - XRD (NIOSH 7500)
[ ] Welding Fumes/Benzene

Asbestos Bulk / Asb ID
[ ] PLM (EPA 600, 1993)
[ ] PLM (EPA Point Count)
[ ] PLM (Qualitative only)
[ ] NYELAP 198.1/.4
[ ] CAELAP (EPA Interim)
[ ] TEM (Chatfield)
[ ] _____

FOR ASBESTOS AIR:
TYPE OF RESPIRATOR USED:

Metals-Total Conc.
[X] Lead
[ ] RCRA Metals
[ ] _____
[ ] _____

Metals-Total Conc.
[ ] TCLP / Lead
[ ] TCLP / RCRA Metals
[ ] TCLP / Full (w/ organics)
[ ] _____
[ ] _____

ORGANICS TESTS and other Analyses
NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate *analysis method* for organics tests.

Sample #	Date Sampled	Organics Time	Sample Identification (e.g. Employee, SSN, Bldg, Material)	Wipes Wiped Area (ft²)	Type[1] A,B,P,S	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air Vol	Organics # containers
11-0117-085 -PC151	2/9/12			1 cm²							
11-0117-085 -PC152	2/9/12			1 cm²							
11-0117-085 -PC153	2/9/12			1 cm²							
11-0117-085 -PC154	2/9/12			1 cm²							
11-0117-085 -PC155	2/9/12			1 cm²							
11-0117-085 -PC156	2/9/12			1 cm²							
11-0117-085 -PC157	2/9/12			1 cm²							
11-0117-085 -PC158	2/9/12			1 cm²							
11-0117-085 -PC159	2/9/12			1 cm²							
11-0117-085 -PC160	2/9/12			1 cm²							

[1]Type: A=area B=blank P=personal E=excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters (time in min * flow in L/min)

Sample Collection & Custody Information

Sampled by [NAME] J. Waldo & M. Cole [SIGNATURE] [signature] [DATE/TIME] 2/9/12
Relinquished by [NAME] Mike Cole [SIGNATURE] [signature] [DATE/TIME] 2/13/12 @ 1600
Received by [NAME] [signature] [SIGNATURE] [signature] [DATE/TIME] 2-14-12
[ ]FX [ ]AB [ ]UPS [ ]USM [ ]HD [ ]DB [ ]COURIER _____
Unusual Sample Condition Noted: _____ WAYBILL #

[ ] Sample return requested
[ ] Ambient temp [ ] Cool ____°C
[ ] pH ___ [ ] Cl ___ [ ]R [ ]S

Chain-of-Custody documentation continued internally within lab.

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SCHNEIDER LABORATORIES GLOBAL

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804-353-6778 • 800-785-LABS (5227) • (FAX) 804-359-1475

Over 25 Years of Excellence in Service and Technology

AIHA/ELLAP 100527, ISO/IEC 17025, NVLAP 101150-0, VELAP 460135, NYELAP/NELAC 11413

LABORATORY ANALYSIS REPORT

Lead Analysis based on EPA 7000B Method

Using SLI P26 A14

ACCOUNT #: 847-12-1855

CLIENT: ENVIRO ENTERPRISE GROUP (EEG)

ADDRESS: 220 N KNOXVILLE AVE STE 200
RUSSELVILLE, AR 72801-4419

PROJECT NAME: All Consulting

JOB LOCATION: Former Howard Co.

PROJECT NO.: 11-0117-085

PO NO.:

DATE COLLECTED: 2/8/2012

DATE RECEIVED: 2/14/2012

DATE ANALYZED: 2/15/2012

DATE REPORTED: 3/8/2012

Sample Type: PAINT-CM

SLI Sample No.	Client Sample No.	Collection Date	Sample Description	Sample Area Initial (cm²)	Sample Area Adj (cm²)	Total Lead (mg)	Lead Concentration (mg/cm²)
31353267	PC01	2/8/2012	1961 E L1 Dry Storage	25.00	25.00	< 0.010	< 0.001
31353268	PC02	2/8/2012	1961 E L1 Rest Room Wall	25.00	25.00	0.028	0.001
31353269	PC03	2/8/2012	1961 E L1 Walls Ins Walls	25.00	25.00	< 0.010	< 0.001
31353270	PC04	2/8/2012	1961 E L1 Elevator DR	25.00	25.00	0.056	0.002
31353271	PC05	2/8/2012	1961 E L1 Kitchen Wall	25.00	25.00	0.013	< 0.001
31353272	PC06	2/8/2012	1961 E L1 Dining Rm Wall	25.00	25.00	0.038	0.002
31353273	PC07	2/8/2012	1961 E L1 Stairway Face	25.00	25.00	0.026	0.001
31353274	PC08	2/8/2012	1961 Lobby Wall	25.00	25.00	0.082	0.003
31353275	PC09	2/8/2012	1961 W L1 Business	25.00	25.00	0.058	0.002
31353276	PC10	2/8/2012	1961 W L1 CFO Ofc	25.00	25.00	< 0.010	< 0.001
31353277	PC11	2/8/2012	1961 W L1 W Hallway	25.00	25.00	0.038	0.002
31353278	PC12	2/8/2012	1961 W L1 Mid Rec Wdw	25.00	25.00	0.019	< 0.001
31353279	PC13	2/8/2012	1961 W L1 Restroom Wdw	25.00	25.00	0.038	0.002
31353280	PC14	2/8/2012	1961 W L1 Classroom	25.00	25.00	0.028	0.001
31353281	PC15	2/8/2012	1961 W L1 Mech Room	25.00	25.00	0.105	0.004
31353282	PC16	2/8/2012	1961 E L2 Room 259	25.00	25.00	0.038	0.002
31353283	PC17	2/8/2012	1961 E L2 Room 261	25.00	25.00	0.036	0.001

Total Number of Pages in Report: 4

Results relate only to samples as received by the laboratory.

Amended Report 03/08/2012 19:45

Samples areas should be 25 cm2 not 1 cm2.

*Minimum Reporting Limit: 0.010 mg. When entire sample weight exceeds protocol, sample is divided for analysis and sample area is adjusted accordingly. Lead Based Paint contains 1.0 mg lead per cm² per Federal statute. The OSHA Lead in Construction Standard, 29 CFR 1926.62, is invoked if any lead is present in the sample. Lead-free paint is defined as <0.009% by weight (CPSC). *Data precision justifies 2 significant figures. All internal QC parameters were met. Unusual sample conditions, if any, are described.*

SLI Sample No.	Client Sample No.	Collection Date	Sample Description	Sample Area Initial (cm²)	Sample Area Adj (cm²)	Total Lead (mg)	Lead Concentration (mg/cm²)
31353284	PC18	2/8/2012	1961 E L2 Room 257	25.00	25.00	0.034	0.001
31353285	PC19	2/8/2012	1961 E L2 E Hallway	25.00	25.00	0.054	0.002
31353286	PC20	2/8/2012	1961 E L2 Classroom Wdw	25.00	25.00	0.051	0.002
31353287	PC21	2/8/2012	1961 E L2 Respiratory	25.00	25.00	0.023	< 0.001
31353288	PC22	2/8/2012	1961 E L2 Nurses Station	25.00	25.00	0.058	0.002
31353289	PC23	2/8/2012	1961 E L2 Room 251	25.00	25.00	0.032	0.001
31353290	PC24	2/8/2012	1961 E L2 Room 241	25.00	25.00	0.039	0.002
31353291	PC25	2/8/2012	1961 E L2 Room 249	25.00	25.00	< 0.010	< 0.001
31353292	PC26	2/8/2012	1961 E L2 W Hallway	25.00	25.00	0.047	0.002
31353293	PC27	2/8/2012	1961 E L2 Room 243	25.00	25.00	0.052	0.002
31353294	PC28	2/8/2012	1961 E L2 Room 247	25.00	25.00	0.049	0.002
31353295	PC29	2/8/2012	1961 E L2 Room 245	25.00	25.00	0.291	0.012
31353296	PC30	2/8/2012	1949 E L2 Maintenance	25.00	25.00	< 0.010	< 0.001
31353297	PC31	2/8/2012	1949 E L2 Room 2 Wdw	25.00	25.00	< 0.010	< 0.001
31353298	PC32	2/8/2012	1949 E L2 Room 2 Wall	25.00	25.00	< 0.010	< 0.001
31353299	PC33	2/8/2012	1949 E L2 Restroom	25.00	25.00	< 0.010	< 0.001
31353300	PC34	2/8/2012	1949 E L2 Mech Room 4	25.00	25.00	0.017	< 0.001
31353301	PC35	2/8/2012	1949 E L2 Staff Lounge	25.00	25.00	< 0.010	< 0.001
31353302	PC36	2/8/2012	1949 E L2 Hallway Wall	25.00	25.00	0.032	0.001
31353303	PC37	2/8/2012	1949 E L2 Mech Room 3	25.00	25.00	0.023	< 0.001
31353304	PC38	2/8/2012	1949 E L2 Critical Care	25.00	25.00	0.043	0.002
31353305	PC39	2/8/2012	1949 E L2 Observation	25.00	25.00	0.019	< 0.001
31353306	PC40	2/8/2012	1949 E L2 Mech Room 2	25.00	25.00	0.108	0.004
31353307	PC41	2/8/2012	1949 E L2 Restroom	25.00	25.00	0.079	0.003
31353308	PC42	2/8/2012	1949/1972 N L2 Room 270	25.00	25.00	0.043	0.002
31353309	PC43	2/8/2012	1949/1972 N L2 Mech Roo	25.00	25.00	0.017	< 0.001
31353310	PC44	2/8/2012	1949/1972 N L2 N Hallway	25.00	25.00	0.017	< 0.001
31353311	PC45	2/8/2012	1949/1972 N L2 Room 276	25.00	25.00	< 0.010	< 0.001
31353312	PC46	2/8/2012	1949/1972 N L2 Family Ro	25.00	25.00	0.021	< 0.001
31353313	PC47	2/8/2012	1949/1972 N L2 CT Scan	25.00	25.00	0.025	< 0.001
31353314	PC48	2/8/2012	1972/1987 L2 CT Scan	25.00	25.00	< 0.010	< 0.001
31353315	PC49	2/8/2012	1972/1987 L2 Nuclear	25.00	25.00	0.306	0.012
31353316	PC50	2/8/2012	1972/1987 L2 Cardio Reha	25.00	25.00	0.268	0.011
31353317	PC51	2/8/2012	1972/1987 L2 Physical	25.00	25.00	< 0.010	< 0.001

Total Number of Pages in Report: 4

Results relate only to samples as received by the laboratory.

Amended Report 03/08/2012 19:45

Samples areas should be 25 cm2 not 1 cm2.

*Minimum Reporting Limit: 0.010 mg. When entire sample weight exceeds protocol, sample is divided for analysis and sample area is adjusted accordingly. Lead Based Paint contains 1.0 mg lead per cm² per Federal statute. The OSHA Lead in Construction Standard, 29 CFR 1926.62, is invoked if any lead is present in the sample. Lead-free paint is defined as <0.009% by weight (CPSC). *Data precision justifies 2 significant figures. All internal QC parameters were met. Unusual sample conditions, if any, are described.*

SLI Sample No.	Client Sample No.	Collection Date	Sample Description	Sample Area Initial (cm²)	Sample Area Adj (cm²)	Total Lead (mg)	Lead Concentration (mg/cm²)
31353318	PC52	2/8/2012	1972/1987 L2 Resroom	25.00	25.00	< 0.010	< 0.001
31353319	PC53	2/8/2012	1972/1987 L2 X-Ray 2	25.00	25.00	< 0.010	< 0.001
31353320	PC54	2/8/2012	1972/1987 L2 X-Ray 2	25.00	25.00	0.026	0.001
31353321	PC55	2/8/2012	1972/1987 L2 Dark Room	25.00	25.00	0.025	< 0.001
31353322	PC56	2/8/2012	1972/1987 L2 X-Ray 1	25.00	25.00	0.012	< 0.001
31353323	PC57	2/8/2012	1972/1987 L2 X-Ray 1	25.00	25.00	0.032	0.001
31353324	PC58	2/8/2012	1972/1987 L2 X-Ray 3	25.00	25.00	0.012	< 0.001
31353325	PC59	2/8/2012	1972/1987 L2 X-Ray 3	25.00	25.00	0.127	0.005
31353326	PC60	2/8/2012	1972/1987 L2 U Shaped	25.00	25.00	0.030	0.001
31353327	PC61	2/8/2012	1972/1987 L2 Trauma 4	25.00	25.00	0.017	< 0.001
31353328	PC62	2/8/2012	1972/1987 L2 Laboratory	25.00	25.00	< 0.010	< 0.001
31353329	PC63	2/8/2012	1972/1987 L2 Waiting Roo	25.00	25.00	< 0.010	< 0.001
31353330	PC64	2/8/2012	1972/1987 L2 Trauma	25.00	25.00	< 0.010	< 0.001
31353331	PC65	2/8/2012	1972/1987 L2 Consultation	25.00	25.00	< 0.010	< 0.001
31353332	PC66	2/8/2012	1972/1987 L2 Sterilization	25.00	25.00	0.146	0.006
31353333	PC67	2/8/2012	1972/1987 L2 Operating	25.00	25.00	3.056	0.122
31353334	PC68	2/8/2012	1972/1987 L2 Recovery	25.00	25.00	< 0.010	< 0.001
31353335	PC69	2/8/2012	1972/1987 L2 Mech Boiler	25.00	25.00	< 0.010	< 0.001
31353336	PC70	2/8/2012	1972/1987 L2 Mech Boiler	25.00	25.00	< 0.010	< 0.001
31353337	PC71	2/8/2012	1972/1987 L2 Mech Boiler	25.00	25.00	0.471	0.019
31353338	PC72	2/8/2012	1972/1987 L2 Mech Boiler	25.00	25.00	21.796	0.872
31353339	PC73	2/8/2012	1972/1987 L2 Mech Boiler	25.00	25.00	0.019	< 0.001
31353340	PC74	2/8/2012	1972/1987 L1 N Stairwell	25.00	25.00	0.023	< 0.001
31353341	PC75	2/8/2012	1972/1987 L1 Communicati	25.00	25.00	< 0.010	< 0.001
31353342	PC76	2/8/2012	1972/1987 L1 Mech Room	25.00	25.00	< 0.010	< 0.001
31353343	PC77	2/8/2012	1972/1987 L1 Laboratory	25.00	25.00	< 0.010	< 0.001
31353344	PC78	2/8/2012	1972/1987 L1 Dialysis	25.00	25.00	< 0.010	< 0.001
31353345	PC79	2/8/2012	1972/1987 L1 Exam Room	25.00	25.00	< 0.010	< 0.001
31353346	PC80	2/8/2012	1949 W L1 Hospital Aux	25.00	25.00	< 0.010	< 0.001
31353347	PC81	2/8/2012	1949 W L1 Medical	25.00	25.00	< 0.010	< 0.001
31353348	PC82	2/8/2012	1949 W L1 Mech Room	25.00	25.00	< 0.010	< 0.001
31353349	PC83	2/8/2012	1949 W L1 Spiral	25.00	25.00	0.719	0.029
31353350	PC84	2/8/2012	1949 W L1 Nurses Station	25.00	25.00	< 0.010	< 0.001
31353351	PC85	2/8/2012	1949 W L1 W Hallway	25.00	25.00	< 0.010	< 0.001

Total Number of Pages in Report: 4

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Amended Report 03/08/2012 19:45

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SLI Sample No.	Client Sample No.	Collection Date	Sample Description	Sample Area Initial (cm²)	Sample Area Adj (cm²)	Total Lead (mg)	Lead Concentration (mg/cm²)
31353352	PC86	2/8/2012	1949 W L1 Patient Room	25.00	25.00	0.276	0.011
31353353	PC87	2/8/2012	1949 W L1 Conf Room	25.00	25.00	0.326	0.013
31353354	PC88	2/8/2012	1949 W L1 E Hallway	25.00	25.00	< 0.010	< 0.001
31353355	PC89	2/8/2012	1949 W L1 Human Res	25.00	25.00	< 0.010	< 0.001
31353356	PC90	2/8/2012	1949 W L1 Central Stairwa	25.00	25.00	0.216	0.009
31353357	PC91	2/8/2012	1949 E L1 Restroom Door	25.00	25.00	< 0.010	< 0.001
31353358	PC92	2/8/2012	1949 E L1 Central Supply	25.00	25.00	0.160	0.006
31353359	PC93	2/8/2012	1949/1961 E Ext Connect	25.00	25.00	2.375	0.095
31353360	PC94	2/8/2012	1961 E Ext Bio Hazard	25.00	25.00	0.012	< 0.001
31353361	PC95	2/8/2012	1961 E Ext Door Frame	25.00	25.00	0.175	0.007
31353362	PC96	2/8/2012	1961 E Ext Downspout	25.00	25.00	0.332	0.013
31353363	PC97	2/8/2012	1961 E Ext Handrail	25.00	25.00	0.023	< 0.001
31353364	PC98	2/8/2012	1949/1972 N Ext Safety	25.00	25.00	0.058	0.002
31353365	PC99	2/8/2012	Pump House Ext Fascia	25.00	25.00	< 0.010	< 0.001
31353366	PC100	2/8/2012	1972/1987 W Ext Door	25.00	25.00	5.442	0.218
31353367	PC101	2/8/2012	1949 W Ext Window	25.00	25.00	0.019	< 0.001
31353368	PC102	2/8/2012	1961 W Ext Siding	25.00	25.00	< 0.010	< 0.001
31353369	PC103	2/8/2012	1961 W Ext Window	25.00	25.00	1.956	0.078

Analysis Run ID: 49481

Analyst: **Sultan Al-Johani**

Total Number of Pages in Report: 4

Results relate only to samples as received by the laboratory.

Reviewed By **Musaab Hashim, Analyst**

Visit www.slabinc.com for current certifications.

Amended Report 03/08/2012 19:45

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APPENDIX E

PERSONNEL CERTIFICATION

State of Arkansas

Department of Health

Environmental Enterprise Group, Inc.

is a licensed

Lead Abatement Consultant

having qualified as required by law in accordance with the regulations adopted by the Arkansas Board of Health's Rules Pertaining to Lead-Based Paint Activities pursuant to Arkansas Code Annotated §20-27-2401 et seq., relative to abatement of lead-containing material within the state of Arkansas.

License Number: 000604

Issue Date: December 19, 2011

Expire Date: December 31, 2012

Shirley Lowe

Lead-Based Paint Program Coordinator

State of Arkansas

Department of Health

000319 Michael E. Cole

having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Board of Health's Rules Pertaining to Lead-Based Paint Activities and is hereby certified in the State of Arkansas in the discipline(s) of Lead

Risk Assessor 12/31/2012

Issue Date: December 19, 2011

Shirley Lowie

Lead-Based Paint Program Coordinator

State of Arkansas

Department of Health

000318 Michael E. Cole

having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Board of Health's Rules Pertaining to Lead-Based Paint Activities and is hereby certified in the State of Arkansas in the discipline(s) of Lead

Inspector 12/31/2012

Issue Date: December 19, 2011

Shirley Lowe

Lead-Based Paint Program Coordinator

APPENDIX F

PHOTOGRAPHS

1971/1987 Edition Level 2 CT Scan

2971/1987 Edition Level 2 CT Scan Operator's Room

FORMER HOWARD COUNTY HOSPITAL
800 WEST LESLIE STREET
NASHVILLE, ARKANSAS

EEG Project #11-0117-085

EEG
Environmental
Enterprise Group, Inc.

www.eegonline.com

3971/1987 Edition Level 2 X-Ray #2

4971/1987 Edition Level 2 X-Ray #1

FORMER HOWARD COUNTY HOSPITAL
800 WEST LESLIE STREET
NASHVILLE, ARKANSAS

EEG Project #11-0117-085

EEG
Environmental
Enterprise Group, Inc.

www.eegonline.com

5971/1987 Edition Level 2 X-Ray #3

6971/1987 Edition Main Mechanical Room Boiler

FORMER HOWARD COUNTY HOSPITAL
800 WEST LESLIE STREET
NASHVILLE, ARKANSAS

EEG Project #11-0117-085

EEG
Environmental
Enterprise Group, Inc.

www.eegonline.com

1961 Edition Level 1 Dry Storage Paint Chip Collection

7971/1987 Edition Level 2 CT Scan Lead-Lined Wall

FORMER HOWARD COUNTY HOSPITAL
800 WEST LESLIE STREET
NASHVILLE, ARKANSAS

EEG Project #11-0117-085

EEG
Environmental
Enterprise Group, Inc.

www.eegonline.com

8971/1987 Edition Level 2 CT Scan Lead-Lined Wall

9971/1987 Edition Level 2 CT Scan Lead-Lined Wall

FORMER HOWARD COUNTY HOSPITAL
800 WEST LESLIE STREET
NASHVILLE, ARKANSAS

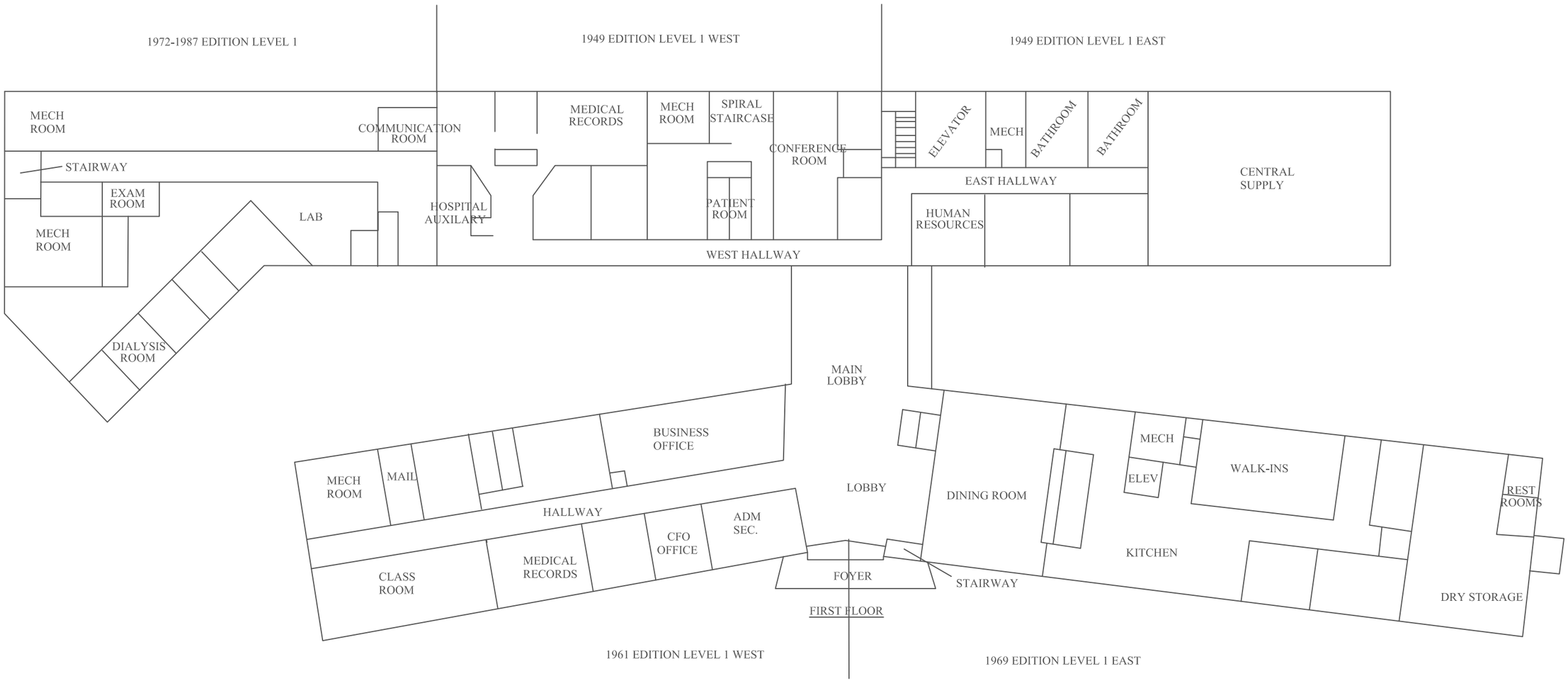
EEG Project #11-0117-085

EEG
Environmental
Enterprise Group, Inc.

www.eegonline.com

APPENDIX G

FLOOR PLAN



FIRST FLOOR
HOWARD MEMORIAL HOSPITAL
800 LESLIE STREET
NASHVILLE, AR

Environmental
Enterprise Group, Inc.

Project #: 11-0117-085

Lead-Lined Walls, Doors and Door Frames

SECOND FLOOR
HOWARD MEMORIAL HOSPITAL
800 LESLIE STREET
NASHVILLE, AR

Environmental Enterprise Group, Inc.

Project #: 11-0117-085

APPENDIX H

LEAD BASED PAINT TERMINOLOGY

LEAD GLOSSARY

AALA: American Association for Laboratory Accreditation. Also known as A2LA.

Abatement: A measure or set of measures designed to permanently eliminate lead-based paint hazards or lead-based paint. Abatement strategies include the removal of lead-based paint, enclosure, encapsulation, replacement of building components coated with lead-based paint, removal of lead-contaminated dust, and removal of lead-contaminated soil or overlaying of soil with a durable covering such as asphalt (grass and sod are considered interim control measures). All of these strategies require preparation; cleanup; waste disposal; post-abatement clearance testing; recordkeeping; and, if applicable, monitoring. See also **Complete abatement** and **Interim controls**.

Abrasion resistance: Resistance of the paint to wear by rubbing or friction; related to both toughness and gloss.

Accessible surface: Any protruding interior or exterior surface, such as an interior window sill, that a young child can mouth or chew.

Accreditation: A formal recognition that an organization, such as a laboratory, is competent to carry out specific tasks or types of tests.

Accredited laboratory: A laboratory that has been evaluated and approved by the National Lead Laboratory Accreditation Program (NLLAP), to perform lead measurement or analysis, usually over a specified period of time.

Accredited training provider: A training provider who meets the standards established by EPA for the training of risk assessors, inspectors, lead-based paint hazard control contractors, and workers.

Accuracy: The degree of agreement between an observed value and an accepted reference value (a "true" value); a data quality indicator. Accuracy includes a combination of random errors (precision) and systematic errors (bias) due to sampling and analysis.

Acrylic: A synthetic resin used in high performance waterborne coatings; a coating whose binder contains acrylic resins.

Adhesion: The ability of dry paint or other coating to attach to a surface and remain fixed on it without blistering, flaking, cracking, or being susceptible to removal by tape.

Administrative removal: The temporary removal of workers from the job to prevent the concentration of lead in their blood from reaching levels requiring medical removal.
AIHA: American Industrial Hygiene Association.

ALC: See **Apparent Lead Concentration**.

Aliquot: See **Subsample**.

Alkali: A chemical, such as lye, soda, lime, etc., that will neutralize an acid. Oil paint films can be destroyed by alkalies. Some paint removal products contain alkaline substances.

Alkyd: Synthetic resin modified with oil; coating that contains alkyd resins in the binder.

Apparent Lead Concentration (ALC): The x-ray fluorescence (XRF) reading or average of more than one reading on a *painted* surface. See also **XRF analyzer**, **Substrate Equivalent Lead (SEL)**, and **Corrected Lead Concentration (CLC)**.

Bare soil: Soil not covered with grass, sod, some other similar vegetation, or paving, including the sand in sandboxes.

Bias: A systematic error in the measurement process. For XRF readings, one source of bias is the substrate effect. See also **Substrate effect** and **XRF analyzer**.

Biennial report (for hazardous waste): A report (EPA Form 8700–13A) submitted by generators of hazardous waste to the EPA Regional Administrator. The report is due on March 1 of even-numbered years. The report includes information on the generator's activities during the previous calendar year. The owners and operators of treatment, storage, and disposal facilities must also prepare and submit biennial reports using EPA Form 8700–1313.

Binder: Solid ingredients in a coating that hold the pigment particles in suspension and bind them to the substrate. Binders used in paints and coatings include oil, alkyd, acrylic, latex, and epoxy. The nature and amount of binder determines many of the coating's performance properties—washability, toughness, adhesion, gloss, etc. See also **Pigment**.

Biological monitoring: The analysis of blood, urine, or both to determine the level of lead contamination in the body. Blood lead levels are expressed in micrograms of lead per deciliter (one-tenth of a liter) of blood, or µg/dL. They are also expressed in micromoles per liter (µmol/L).

Blank: A non-exposed sample of the medium being used for testing (i.e., wipe or filter) that is analyzed to determine if the medium has been contaminated with lead (e.g., at the factory or during transport).

Blind sample: A subsample submitted for analysis with a composition and identity known to the submitter but not to the analyst; used to test the analyst's or laboratory's proficiency in conducting measurements. See also **Spiked sample**.

Blood lead threshold: Any blood lead level greater than or equal to 10 µg/dL as defined by the Centers for Disease Control and Prevention. See also **Elevated Blood Lead level (EBL) child**.

Building component: Any element of a building that may be painted or have dust on its surface, e.g. walls, stair treads, floors, railings, doors, window sills, etc.

Building component replacement: See **Replacement**.

Cementitious material: A material that is mixed with water, either with or without aggregate, to provide the plasticity, cohesion, and adhesion necessary for the placement and formation of a rigid mass (ASTM Standard C 11).

Centimeter: See cm.

Certification: The process of testing and evaluating against certain specifications the competence of a person, organization, or other entity in performing a function or service, usually for a specified period of time.

Certified: The designation for contractors who have completed training and other requirements to allow them to safely undertake risk assessments, inspections, or abatement work. Risk assessors, inspectors, and abatement contractors should be certified by the appropriate local, State or Federal agency.

LEAD GLOSSARY

Certified Industrial Hygienist (CIH): A person who has passed the 2-day certification exam of the American Board of Industrial Hygiene, and who has at least 4 years of experience in industrial hygiene and a graduate degree or a total of 5 years of experience. See also **Industrial hygienist**.

Certified reference material (CRM): Reference material that has at least one of its property values established by a technically valid procedure and is accompanied by or traceable to a certificate or other documentation issued by a certifying body. See also **Standard reference material**.

CFR: See **Code of Federal Regulations**.

Chalking: The photo-oxidation of paint binders—usually due to weathering—that causes a powder to form on the film surface.

Characteristics (of hazardous waste): EPA has identified four characteristics of hazardous waste: ignitability, corrosivity, reactivity, and toxicity (as determined by the TCLP test). Any solid waste that exhibits at least one of these characteristics may be classified as hazardous under the Resource Conservation and Recovery Act (RCRA), depending on how the waste is produced and what quantities are generated. See also **Toxicity Characteristic Leaching Procedure (TCLP)**.

Chewable surface: See **Chewed surface** and **Accessible surface**.

Chewed surface: Any painted surface that shows evidence of having been chewed or mouthed by a young child. A chewed surface is usually a protruding, horizontal part of a building, such as an interior window sill. See also **Accessible surface**.

CLC: See **Corrected Lead Concentration (CLC)**.

Cleaning: The process of using a HEPA vacuum and wet cleaning agents to remove leaded dust; the process includes the removal of bulk debris from the work area. OSHA prohibits the use of compressed air to clean lead-contaminated dust from a surface.

Clearance examination: Visual examination and collection of environmental samples by an inspector or risk assessor and analysis by an accredited laboratory upon completion of an abatement project, interim control intervention, or maintenance job that disturbs lead-based paint (or paint suspected of being lead-based). The clearance examination is performed to ensure that lead exposure levels do not exceed standards established by the EPA Administrator pursuant to Title IV of the Toxic Substances Control Act, and that any cleaning following such work adequately meets those standards.

Clearance examiner: A person who conducts clearance examinations following lead-based paint hazard control and cleanup work, usually a certified risk assessor or a certified inspector. **cm**: Centimeter; 1/100 of a meter.

Code of Federal Regulations (CFR): The codification of the regulations of Federal agencies. The regulations are published in the *Federal Register*. See also ***Federal Register* (FR)**.

Cohesion: Ability of a substance to adhere to itself; internal adhesion; the force holding a substance together.

Common area: A room or area that is accessible to all residents in a community (e.g., hallways or lobbies); in general, any area not kept locked.

Competent person: As defined in the OSHA Lead Construction Standard (29 CFR 1926.62), a person who is capable of identifying or predicting hazardous working conditions and work areas, and who has authorization to take prompt, corrective measures to eliminate the hazards. A competent person is not necessarily a risk assessor, inspector, or abatement project supervisor.

Complete abatement: Abatement of all lead-based paint inside and outside a dwelling or building and reduction of any lead-contaminated dust or soil hazards. All of these strategies require preparation; cleanup; waste disposal; post-abatement clearance testing; recordkeeping; and, if applicable, reevaluation and on-going monitoring. See also **Abatement**.

Compliance plan: A document that describes the types of tasks, workers, protective measures, and tools and other materials that may be employed in lead-based paint hazard control to comply with the OSHA Lead Exposure in Construction standard.

Composite sample: A single sample made up of individual subsamples. Analysis of a composite sample produces the arithmetic mean of all subsamples. **Containment**: A process to protect workers and the environment by controlling exposures to the lead-contaminated dust and debris created during abatement. See **Worksite preparation level**.

Contingency plan: A document that describes an organized, planned, and coordinated course of action to be taken during any event that threatens human health or the environment, such as a fire, explosion, or the release of hazardous waste or its constituents from a treatment, storage, or disposal facility.

Corrected Lead Concentration (CLC): The absolute difference between the Apparent Lead Concentration and the Substrate Equivalent Lead. See also **Apparent Lead Concentration (ALC)** and **Substrate Equivalent Lead (SEL)**.

Detection limit: The minimum amount of a substance that can be reliably measured by a particular method.

Deteriorated lead-based paint: Any lead-based paint coating on a damaged or deteriorated surface or fixture, or any interior or exterior lead-based paint that is peeling, chipping, blistering, flaking, worn, chalking, alligatoring, cracking, or otherwise becoming separated from the substrate.

Digestion blank: A mixture of the reagents used for digesting of paint, soil, or dust matrixes but without the matrix. The blank undergoes all the steps of the analysis, starting with digestion. The blank is used to evaluate the contamination process from a laboratory.

Direct-reading XRF: An analyzer that provides the operator with a display of lead concentrations calculated from the lead K x ray intensity without a graphic of the spectrum usually in mg/cm^2 (milligrams of lead per square centimeter of painted surface area). See also **XRF analyzer**.

Disposal (of hazardous waste): The discharge, deposit, injection, dumping, spilling, leaking, or placement of solid or hazardous waste on land or in water so that none of its constituents can pollute the environment by being emitted into the air or discharged into a body of water, including groundwater.

Disposal facility: A facility or part of one in which hazardous waste is placed on land or in water to remain there after the facility closes.

Door mat: See **Walk-off mat.**

Dust removal: A form of interim control that involves initial cleaning followed by periodic monitoring and re-cleaning, as needed. Depending on the severity of lead-based paint hazards, dust removal may be the primary activity or just one element of a broader control effort.

Dust trap: A surface, component, or furnishing that serves as a reservoir where dust can accumulate.

EBL child: See **Elevated Blood Lead level (EBL) child**.

Efflorescence: The salt rising to the surface of a material, such as masonry, plaster, or cement, caused by the movement of water through the material. Paint or encapsulants may not adhere to a surface contaminated with efflorescence.

Elastomeric: A group of pliable, elastic liquid encapsulant coatings. An elastomer is a macromolecular material which, at room temperature, is capable of substantially recovering its size and shape after the force causing its deformation is removed (see ASTM D 907, D-14).

Elevated Blood Lead level (EBL) child: A child who has a blood lead level greater than or equal to 20 µg/dL or a persistent 15 µg/dL. See also **Blood lead threshold**.

Encapsulation: Any covering or coating that acts as a barrier between lead-based paint and the environment, the durability of which relies on adhesion and the integrity of the existing bonds between multiple layers of paint and between the paint and the substrate. See also **Enclosure**.

Enclosure: The use of rigid, durable construction materials that are mechanically fastened to the substrate to act as a barrier between the lead-based paint and the environment.

Field blank: A clean sample of the matrix (e.g., filter, or wipe) that has been exposed to the sampling conditions; returned to the laboratory; and analyzed as an environmental sample. Clean quartz sand, air sampling filters and cassettes, and clean wipes can be used as field blanks. The field blank, which should be treated just like the sample, indicates possible sources of contamination.

FR: See ***Federal Register (FR)***.

Friction surface: Any interior or exterior surface, such as a window or stair tread, subject to abrasion or friction.

Generator: Any person whose act or operation produces hazardous waste identified or listed in 40 CFR Part 261 or whose act causes a hazardous waste to come under regulation (40 CFR 260.10).

Generator identification number: The unique number assigned by EPA to each generator; transporter of hazardous waste; and treatment, storage, or disposal facility.

Hazardous waste: As defined in EPA regulations (40 CFR 261.3), *hazardous waste* is solid waste or a combination of solid wastes that because of its quantity; concentration; or physical, chemical, or infectious characteristics may cause or significantly contribute to increases in mortality, serious and irreversible or incapacitating but reversible illnesses, or pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed. As defined in the regulations, solid waste is hazardous if it meets one of four conditions: (1) exhibits a characteristic of hazardous waste (40 CFR Sections 261.20 through 262.24); (2) has been listed as hazardous (40 CFR Section 261.31 through 261.33); (3) is a mixture containing a listed hazardous waste combined with a nonhazardous solid waste, unless the mixture is specifically excluded or no longer exhibits any of the characteristics of hazardous waste; and (4) is not excluded from regulation as hazardous waste. For lead-based paint abatement

Engineering controls: Measures other than respiratory protection or administrative controls that are implemented at the work site to contain, control, and/or otherwise reduce exposure to lead-contaminated dust and debris usually in the occupational health setting. The measures include process and product substitution, isolation, and ventilation.

Epoxy paint: Paint based on an epoxy resin. An epoxy resin is a cross-linking resin the reactivity of which depends on the epoxide group.

Evaluation: Risk assessment, paint inspection, reevaluation, investigation, clearance examination, or risk assessment screen.

Examination: See **Clearance examination**.

Examiner: A person certified to conduct clearance examinations or reevaluations, usually a certified inspector or certified risk assessor.

Exposure monitoring: The sampling and analysis of air both inside and outside the work area to determine the degree of worker and resident exposure to lead or other airborne contaminants, often involving air sampling inside a worker's breathing zone.

Exterior work area: For lead hazard control work, the exterior work area includes any exterior building components, such as a porch or stairway; the safety perimeter; and access barriers.

Facility (pertaining to hazardous waste): All buildings, contiguous land, structures, and other appurtenances, as well as any improvements, where lead-based paint or hazardous waste is treated, stored, or disposed. A facility may consist of several different treatment, storage, or disposal units, such as landfills and surface impoundments.

***Federal Register* (FR)**: A daily Federal publication that contains proposed and final regulations, rules, and notices.

Fibermat: A semirigid woven material attached with a liquid adhesive to a surface or substrate waste, hazardous waste is waste that contains more than 5 ppm of leachable lead as determined by the TCLP test, or is waste that is corrosive, ignitable, or reactive and not otherwise excluded.

Hazardous Waste Manifest: See **Manifest**.

Heat gun: A device capable of heating lead-based paint causing it to separate from the substrate. For lead hazard control work, the heat stream leaving the gun should not exceed 1,100 °F (some authorities may use a different temperature).

HEPA filter: See **High-Efficiency Particulate Air (HEPA) filter**.

HEPA/wet wash/HEPA cycle: The cleaning cycle that begins with HEPA vacuuming, followed by a wet wash with a lead-specific cleaning agent, such as trisodium phosphate detergent or another liquid cleaning agent, followed by a final pass with a HEPA vacuum over the surface.

High-Efficiency Particulate Air (HEPA) filter: A filter capable of removing particles of 0.3 microns or larger from air at 99.97 percent or greater efficiency.

High phosphate detergent: See **Trisodium phosphate (TSP) detergent**.

Impact surface: An interior or exterior surface (such as surfaces on doors) subject to damage by repeated impact or contact.

Incinerator: An enclosed device using controlled flame combustion that neither meets the criteria for classification as a boiler nor is listed as an industrial furnace.

Industrial hygienist: A person having a college or university degree in engineering, chemistry, physics, medicine, or a related physical or biological science who, by virtue of special training, is qualified to anticipate, recognize, evaluate, and control environmental and occupational health hazards and the impact of those hazards on the community and workers.

In-place management: See **Interim controls**. **Inspection (of paint)**: A surface-by-surface investigation to determine the presence of lead-based paint (in some cases including dust and soil sampling) and a report of the results.

Inspector: An individual who has completed training from an accredited program and been licensed or certified by the appropriate State or local agency to (1) perform inspections to determine and report the presence of lead-based paint on a surface-by-surface basis through onsite testing, (2) report the findings of such an inspection, (3) collect environmental samples for laboratory analysis, (4) perform clearance testing, and (5) document successful compliance with lead-based paint hazard control requirements or standards.

Interim controls: A set of measures designed to temporarily reduce human exposure or possible exposure to lead-based paint hazards. Such measures include specialized cleaning, repairs, maintenance, painting, temporary containment, and management and resident education programs. Monitoring, conducted by owners, and reevaluations, conducted by professionals, are integral elements of interim control. Interim controls include dust removal; paint film stabilization; treatment of friction and impact surfaces; installation of soil coverings, such as grass or sod; and land-use controls. See also **Monitoring, Reevaluation,** and **Abatement**.

Interior window sill: The portion of the horizontal window ledge that protrudes into the interior of the room, adjacent to the window sash when the window is closed; often called the window stool.

Investigation (pertaining to EBL case): The process of determining the source of lead exposure for a child or other resident with an elevated blood lead level. Investigation consists of administration of a questionnaire, comprehensive environmental sampling, case management, and other measures.

Investigator: A person who conducts an investigation of a dwelling where a resident has an elevated blood lead level. The investigator must be proficient in interviewing techniques, environmental sampling, and the interpretation of risk assessment and environmental sampling data.

Laboratory analysis: A determination of the lead content by atomic absorption spectroscopy, inductively coupled plasma emission spectroscopy, or laboratory-based K or L x-ray fluorescence, or an equivalent method.

Landfill: A State-licensed or State-permitted disposal facility that meets municipal solid waste standards (see Federal regulations at 40 CFR 258).

Landfill liner: A continuous layer of natural or synthetic materials placed beneath and sometimes around a surface impoundment, landfill, or landfill cell. The layer restricts the downward or lateral escape of hazardous waste, hazardous waste constituents, or leachate (40 CFR Part 258).

Latex: A waterborne emulsion paint made with synthetic binders, such as 100-percent acrylic, vinyl acrylic, terpolymer, or styrene acrylic; a stable emulsion of polymers and pigment in water.

Lead: Lead includes metallic lead and inorganic and organic compounds of lead.

Lead-based paint: Any paint, varnish, shellac, or other coating that contains lead equal to or greater than 1.0 mg/cm^2 as measured by XRF or laboratory analysis, or 0.5 percent by weight (5,000 µg/g, 5,000 ppm, or 5,000 mg/kg) as measured by laboratory analysis. (Local definitions may vary.)

Lead-based paint hazard: A condition in which exposure to lead from lead-contaminated dust, lead-contaminated soil, or deteriorated lead-based paint would have an adverse effect on human health (as established by the EPA Administrator under Title IV of the Toxic Substances Control Act). Lead-based paint hazards include for example, deteriorated lead-based paint, leaded dust levels above applicable standards, and bare leaded soil above applicable standards.

Lead-based paint hazard control: Activities to control and eliminate lead-based paint hazards, including interim controls, abatement, and complete abatement.

Lead-based paint abatement planner/designer: An individual who has completed an accredited training program on planning and designing lead-based paint abatement projects.

Lead-based paint abatement worker: See **Worker**.

Lead carbonate: A pigment used in some lead-based paints as a hiding agent; also known as white lead.

Lead-contaminated dust: Surface dust in residences that contains an area or mass concentration of lead in excess of the standard established by the EPA Administrator, pursuant to Title IV of the Toxic Substances Control Act. Until the EPA standards are set, the HUD-recommended clearance and risk assessment standards for leaded dust are 100 $\mu g/ft^2$ on floors, 500 $\mu g/ft^2$ on interior window sills, and 800 $\mu g/ft^2$ on window troughs. The recommended standard for lead hazard screens for floors is 50 $\mu g/ft^2$ and for window troughs is 400 $\mu g/ft^2$.

Lead-contaminated soil: Bare soil on residential property that contains lead in excess of the standard established by the EPA Administrator, pursuant to Title IV of the Toxic Substances Control Act. The HUD-recommended standard and interim EPA guidance is 400 µg/g for high-contact play areas and 2,000 µg/g in other bare areas of the yard. Soil contaminated with lead at levels greater than or equal to 5,000 µg/g should be abated by removal or paving.

Lead-free dwelling: A lead-free dwelling contains no lead-based paint and has interior dust and exterior soil lead levels below the applicable HUD and EPA standards.

LEAD GLOSSARY

Lead hazard screen: A means of determining whether residences in good condition should have a full risk assessment. Also called a risk assessment screen.

Lead-poisoned child: A child with a single blood lead level that is greater than or equal to 20 µg/dL or consecutive blood lead levels greater than or equal to 15 µg/dL. Local definitions may vary.

Lead-specific detergent: A cleaning agent manufactured specifically for cleaning and removing leaded dust or other lead contamination.

Leaded dust: See **Lead-contaminated dust**.

Leaded zinc: A paint primer made from zinc oxide and lead sulfates.

Licensed: Holding a valid license or certification issued by EPA or by an EPA-approved State program pursuant to Title IV of the Toxic Substances Control Act. The license is based on certification for lead-based paint hazard control work. See also **Certified**.

Listed waste: A hazardous waste that has been placed on one of three lists developed by EPA: nonspecific source wastes, specific source wastes, and commercial chemical products. The lists were developed by examining different types of waste and chemical products to determine if they exhibited one of the four characteristics of hazardous waste (toxicity, corrosivity, ignitability, or reactivity), met the statutory definition of hazardous waste, were acutely toxic or acutely hazardous, or were otherwise toxic.

Maintenance: Work intended to maintain adequate living conditions in a dwelling, which has the potential to disturb lead-based paint or paint that is suspected of being lead-based.

Manifest: The shipping document (EPA Form 8700–22 or a comparable form required by the State or locality) used for identifying the quantity, composition, origin, routing, and destination of hazardous waste during its transport from the point of generation to the point of treatment, storage, or disposal. Also, a shipping document used to keep track of items being transported. All hazardous waste must be accompanied by a manifest. See **Hazardous waste**.

Mat: See **Walk-off mat**.

Matrix blank: A sample of the matrix (paint chips, soil, or dust) that does not contain the analyte lead. This sample goes through the complete analysis, including digestion.

MDL: See **Method detection limit (MDL)**.

Mean: The arithmetic average of a series of numerical data values; for example, the algebraic sum of the data values divided by the number of data values.

Medical removal: The temporary removal of workers from the job because of the occurrence of elevated blood lead levels as defined in the OSHA Lead Exposure in Construction standard (29 CFR 1926.62).

Method blank: See **Digestion blank**.

Method detection limit (MDL): The minimum concentration of an analyte that, for a given matrix and method, has a 99-percent probability of being identified, qualitatively or quantitatively measured, and reported to be greater than zero.

mg: Milligram; 1/1,000 of a gram.

Microgram: See µg.

Mil: 1/1,000 of an inch; used to measure thickness.

Milligram: See **mg**.

Monitoring: Surveillance to determine (1) that known or suspected lead-based paint is not deteriorating, (2) that lead-based paint hazard controls, such as paint stabilization, enclosure, or encapsulation have not failed, (3) that structural problems do not threaten the integrity of hazard controls or of known or suspected

Oxidation: A chemical reaction that occurs upon exposure to oxygen. Some coatings cure by oxidation; oxygen enters the liquid coating and crosslinks (attaches) the resin molecules. This film-forming method is also called “air cure” or “air dry.” Oxidation also causes rust to form on metals and paint to chalk.

Paint film stabilization: The process of wet scraping, priming, and repainting surfaces coated with deteriorated lead-based paint; paint film stabilization includes cleanup and clearance.

Paint removal: An abatement strategy that entails the removal of lead-based paint from surfaces. For lead hazard control work, this can mean using chemicals, heat guns below 1,100 °F, and certain *contained* abrasive methods. Open flame burning, open abrasive blasting, sandblasting, water blasting, and extensive dry scraping are prohibited paint removal methods. (Methylene chloride paint removers and dry scraping are also not recommended.)

Patch test: A test method or procedure to assess the adhesion of an encapsulant coating to a substrate covered with a layer or layers of lead-based paint.

Personal breathing zone samples: Air samples collected from the breathing zone of a worker (within a 1-foot radius of the worker’s mouth) but outside the respirator. The samples are collected with a personal sampling pump operating at 2 liters per minute, drawing air through a 37 mm mixed cellulose ester filter housed in a closed-face cassette with a pore size of 0.8 microns. See **Exposure monitoring**.

Personal Protective Equipment (PPE): Equipment for protecting the eyes, face, head, and/or extremities; includes protective clothing, respiratory devices, and protective shields; used when hazards capable of causing bodily injury or impairment are encountered. lead-based paint, and (4) that dust lead levels have not risen above applicable standards. There are two types of monitoring activities; visual surveys by property owners and reevaluations by certified risk assessors. Visual surveys are generally conducted annually for the purpose of making the first three determinations listed above. Reevaluations are conducted in accordance with the Standard Reevaluation Schedule (or more frequently, if needed) for the purpose of making all four determinations. Monitoring is not required in properties known to be free of lead-based paint. See also **Reevaluation** and **Standard reevaluation schedule.**

Monofil: A State-approved landfill that accepts only construction debris.

Mouthable surface: See **Chewed surface**.

Multifamily housing: Housing that contains more than one dwelling unit per location.

NLLAP requirements: Requirements, specified by the EPA National Lead Laboratory Accreditation Program (NLLAP), for accreditation for the lead analysis of paint, soil, and dust matrixes by an EPA-recognized laboratory accreditation organization.

Offsite paint removal: The process of removing a component from a building and stripping the paint from the component at an offsite paintstripping facility.

Ongoing monitoring: See **Monitoring**.

Owner: A person, firm, corporation, guardian, conservator, receiver, trustee, executor, government agency or entity, or other judicial officer who, alone or with others, owns, holds, or controls the freehold or leasehold title or part of the title to property, with or without actually possessing it. This definition includes a vendee who possesses the title, but does not include a mortgagee or an owner of a reversionary interest under a ground rent lease.

PHA: See **Public Housing Agency (PHA)**.

Pigment: Insoluble, finely ground materials that give paint its properties of color and hide.

Pigment Volume Concentration (PVC): Pigment volume as a percentage of the total nonvolatile ingredients.

Pilot project: In multifamily housing, the testing of a lead-based paint hazard control strategy on a limited number of dwellings, usually those that are vacant, to determine the feasibility of carrying out such a strategy in the entire multifamily housing development; usually involves paint testing, air sampling, wipe sampling, worksite preparation, and a variety of lead-based paint hazard control treatments.

Plastic: See **Polyethylene plastic**.

Polyethylene plastic: All references to polyethylene plastic refer to 6-mil plastic sheeting or polyethylene bags (or doubled bags if using 4-mil polyethylene bags), or any other thick plastic material shown to demonstrate at least equivalent performance. Plastic used to contain waste should be capable of completely containing the waste and, after being properly sealed, should remain leak-tight with no visible signs of discharge during movement or relocation.

Polyurethane: An exceptionally hard and wear-resistant coating created by the reaction of polyols with a multifunctional isocyanate; often used to seal wood floors following lead-based paint hazard control work and cleaning.

Precision: The degree to which a set of observations or measurements of the same property, usually obtained under similar conditions, conform to themselves; a data quality indicator. Precision is usually expressed in either absolute or relative terms as standard deviation, variance, or range. Often known as "reproducibility."

Primary prevention: The process of controlling lead hazards to prevent exposure *before* a child is poisoned. See **Secondary prevention** and **Tertiary prevention**.

Primary standard: A substance or device with a property or value that is unquestionably accepted, within specified limits, in establishing the value of the same or related property of another substance or device.

Public Housing Agency (PHA): Any State, county, municipality, or other government entity or public body, or agency or instrumentality thereof, authorized to engage or assist in the development or operation of housing for low income families.

PVC: See **Pigment Volume Concentration (PVC)**.

Quality Assurance (QA): An integrated system of activities involving planning, quality control, quality assessment, reporting, and quality improvement to ensure that a product or service meets defined standards of quality within a stated level of confidence.

Quality Control (QC): The overall system of technical activities whose purpose is to measure and control the quality of a product or service so that it meets the needs of users. The aim is to provide a level of quality that is satisfactory, adequate, dependable, and economical.

Random sample: A sample drawn from a population in a way that allows each member of the population to have an equal chance of being selected. Random sampling is a process used to identify locations for the lead-based paint inspections in multifamily dwellings. See also **Targeted sample** and **Worst-case sample**.

RCRA: See **Resource Conservation and Recovery Act (RCRA)**.

Reevaluation: In lead hazard control work, the combination of a visual assessment and collection of environmental samples performed by a certified risk assessor to determine if a previously implemented lead-based paint hazard control measure is still effective and if the dwelling remains lead-safe.

Reference material: A material or substance that has at least one sufficiently well established property that can be used to calibrate an apparatus, assess a measurement method, or assign values to materials.

Reinspection: See **Reevaluation**.

Removal: See **Paint removal**.

Renovation: Work that involves construction and/or home or building improvement measures such as window replacement, weatherization, remodeling, and repainting.

Replacement: A strategy of abatement that entails the removal of building components coated with lead-based paint (such as windows, doors, and trim) and the installation of new components free of lead-based paint.

Representative sample: A sample of a universe or whole (e.g., waste sample pile, lagoon, groundwater, or waste stream) that can be expected to exhibit the average properties of the entire universe or whole.

Resident: A person who lives in a dwelling.

Resource Conservation and Recovery Act (RCRA): The primary Federal statute governing waste management from generation to disposal. RCRA defines the criteria for hazardous and nonhazardous waste.

Risk assessment: An onsite investigation of a residential dwelling to discover any lead-based paint hazards. Risk assessments include an investigation of the age, history, management, and maintenance of the dwelling, and the number of children under age 6 and women of childbearing age who are residents; a visual assessment; limited environmental sampling (i.e., collection of dust wipe samples, soil samples, and

deteriorated paint samples); and preparation of a report identifying acceptable abatement and interim control strategies based on specific conditions.

Risk assessment screen: A type of risk assessment performed only in buildings in good condition using fewer samples but more stringent evaluation criteria (standards) to determine lead hazards.

Risk assessor: A certified individual who has completed training with an accredited training program and who has been certified to (1) perform risk assessments, (2) identify acceptable abatement and interim control strategies for reducing identified lead-based paint hazards, (3) perform clearance testing and reevaluations, and (4) document the successful completion of lead-based paint hazard control activities.

Sample site: A specific spot on a surface being tested for lead concentration.

Saponification: The chemical reaction between alkalies and oil that produces a type of soap. Because of saponification, oil and alkyd coatings will not adhere to masonry substrates, galvanized metals, or zinc-rich primers. Also a form of incompatibility between types of coatings.

Screen: See **Risk assessment screen** or **Lead hazard screen**.

Screening: The process of testing children to determine if they have elevated blood lead levels.

Secondary prevention: The process of identifying children who have elevated blood lead levels through screening and controlling or eliminating the sources of further exposure. See also **Primary prevention** and **Tertiary prevention**.

SEL: See **Substrate Equivalent Lead (SEL)**.

Site: The land or body of water where a facility is located or an activity is conducted. The site includes adjacent land used in connection with the facility or activity.

Small-quantity generator: Owners, contractors (generators), or both who produce less than 100 kg of hazardous waste per month and accumulate less than 100 kg of hazardous waste at any one time, or who produce less than 1 kg of *acutely* hazardous waste per month and accumulate less than 1 kg of *acutely* hazardous waste at any one time.

Soil: See **Bare soil**.

Solid waste: As defined by RCRA, the term *solid waste* means garbage; refuse; sludge from a waste treatment plant, water supply treatment plant, or air pollution control facility; or other discarded materials, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations or from community activities. The term does not include solid or dissolved material in domestic sewage or solid or dissolved material in irrigation return flows or industrial discharges (which are point sources subject to permits under the Clean Water Act), nor does the term include special nuclear or byproduct material as defined by the Atomic Energy Act of 1954.

Spectrum analyzer: A type of XRF analyzer that provides the operator with a plot of the energy and intensity, or counts of both K and L x-ray spectra, as well as a calculated lead concentration. See also **XRF analyzer**.

Spiked matrix: See **Spiked sample**.

Spiked sample: A sample prepared by adding a known mass of the target analyte (e.g., leaded dust) to a specific amount of matrix sample (e.g., one dust wipe) for which an independent estimate of the target analyte concentration is available. Spiked samples are used to determine, for example, the effect of the matrix on a method's recovery efficiency. See also **Blind sample**.

Spot-prime: To apply a paint primer to localized areas of exposed substrate.

Standard deviation: A measure of the precision of a reading; the spread of the deviation from the mean. The smaller the standard deviation, the more precise the analysis. The standard deviation is calculated by first obtaining the mean, or the arithmetic average, of all of the readings. A formula is then used to calculate how much the individual values vary from the mean—the standard deviation is the square root of the arithmetic average of the squares of the deviation from the mean. Many hand calculators have an automatic standard deviation function. See also **Mean**.

Standard reevaluation schedule (SRS): A schedule that determines the frequency that reevaluations should be performed on a property.

Standard reference material (SRM): A certified reference material produced by the National Institute of Standards and Technology (U.S. Department of Commerce) and characterized for absolute content independent of analytical method. See also **Certified reference material**.

Subsample: A representative portion of a sample. A subsample may be either a field sample or a laboratory sample. A subsample is often combined with other subsamples to produce a composite sample. See also **Composite sample**.

Substrate: A surface on which paint, varnish, or other coating has been applied or may be applied. Examples of substrates include wood, plaster, metal, and drywall.

Substrate effect: The radiation returned to an XRF analyzer by the paint, substrate, or underlying material, in addition to the radiation returned by any lead present. This radiation, when counted as lead x-rays by an XRF analyzer contributes to substrate equivalent lead (bias). The inspector may have to compensate for this effect when using XRF analyzers. See also **XRF analyzer**.

Substrate Equivalent Lead (SEL): The XRF measurement taken on an unpainted surface; used to calculate the corrected lead concentration on a surface by using the following formula: Apparent Lead Concentration–Substrate Equivalent Lead = Corrected Lead Concentration. See also **Apparent Lead Concentration (ALC)**, **Corrected Lead Concentration (CLC)**, and **XRF analyzer**.

Target housing: Any residential unit constructed before 1978, except dwellings that do not contain bedrooms or dwellings that were developed specifically for the elderly or persons with disabilities—unless a child younger than 6 resides or is expected to reside in the dwelling. In the case of jurisdictions that banned the sale or use of lead-based paint before 1978, the Secretary of HUD may designate an earlier date for defining target housing.

Targeted sample: A sample of dwelling units selected from an apartment building or housing development using information supplied by the owner. The units selected are likely to have the greatest probability of containing lead-based paint hazards. A

targeted sample is usually selected for performing risk assessments in multifamily housing when it is not possible to select a worst-case sample. See also **Worst-case sample** and **Random sample**.

TCLP: See **Toxicity Characteristic Leaching Procedure (TCLP)**.

Tertiary prevention: Providing medical treatment to children with elevated blood lead levels to prevent more serious injury or death.

Testing combination: A unique surface to be tested that is characterized by the room equivalent, component, substrate, and visible color.

Test location: A specific area on a testing combination where XRF instruments will test for lead-based paint.

Toxicity Characteristic Leaching Procedure (TCLP): A laboratory test to determine if excessive levels of lead or other hazardous materials could leach from a sample into groundwater; usually used to determine if waste is hazardous based on its toxicity characteristics.

Trained: Successful completion of a training course in a particular discipline. For lead hazard control work, the training course must be accredited by EPA or by an EPA-approved State program, pursuant to Title IV of the Toxic Substances Control Act.

Transporter: A person who transports hazardous waste, requiring a manifest under 40 CFR Part 260.10, within the United States by air, rail, highway, or water.

Treatment: In residential lead-based paint hazard control work, any method designed to control lead-based paint hazards. Treatment includes interim controls, abatement, and removal. Hazardous waste "treatment" is a method, technique, or process (such as neutralization) that is designed to change the physical, chemical, or biological character or composition of hazardous waste to neutralize it; render it nonhazardous or less hazardous; recover it; make it safer to transport, store, or dispose; or allow for easier recovery, storage, or volume reduction.

Treatment, Storage, and Disposal (TSD) facility: A facility licensed to handle hazardous waste.

Trisodium phosphate (TSP) detergent: A detergent that contains trisodium phosphate.

Trough: See **Window trough**.

Truck-mounted vacuum unit: A vacuum system whose components, except for hoses and attachments, are located outside the building undergoing dust removal. The exhaust is vented outside so that the interior dust is not disturbed.

TSD: See **Treatment, Storage, and Disposal (TSD) facility**.

TSP: See **Trisodium phosphate (TSP) detergent**.

µg (or ug): Micrograms. The prefix micro means 1/1,000,000 (or one-millionth); a microgram is 1/1,000,000 of a gram and 1/1,000 of a milligram; equal to about 35/1,000,000,000 (35 billionths) of an ounce (an ounce is equal to 28,400,000 µg).

Urethane-modified alkyd: An alkyd molecule that has been chemically modified by the incorporation of a urethane; a coating, often a varnish, that uses a urethane-modified alkyd resin in the binder.

Useful life: The life expectancy of a coating before it requires refinishing or some other form of maintenance.

VOC: See **Volatile Organic Compound (VOC)**.

Volatile Organic Compound (VOC): Substances that vaporize or evaporate from a coating during the coating or curing process.

Walk-off mat: A washable, fibrous material (preferably with a rubber or vinyl backing) positioned at main entryways to reduce transport of lead dust and lead soil into a building or residence.

White lead: A white pigment, usually lead carbonate. See also **Lead carbonate**.

Window sill: See **Interior window sill**.

Window stool: See **Interior window sill**.

Window trough: For a typical double-hung window, the portion of the exterior window sill between the interior window sill (or stool) and the frame of the storm window. If there is no storm window, the window trough is the area that receives both the upper and lower window sashes when they are both lowered. Sometimes inaccurately called the window "well." See also **Window well**.

Window well: The space that provides exterior access and/or light to a window that is below grade, i.e., below the level of the surrounding earth or pavement. See also **Window trough**.

Worker: An individual who has completed training in an accredited program to perform lead-based paint hazard control in housing.

Worksite: Any interior or exterior area where lead-based paint hazard control work takes place.

Worksite preparation level: A set of measures designed to protect residents and the environment from leaded dust, paint chips, or other forms of lead contamination through the erection of barriers and the establishment of access control, resident relocation or movement restrictions, warning signs, ventilation, and other measures.

Worst-case sample: A sample of dwelling units having the greatest probability of containing lead-based paint hazards selected by a risk assessor on the basis of a visual examination of all dwelling units in a housing development or apartment building. See also **Targeted sample** and **Random sample**.

XRF analyzer: An instrument that determines lead concentration in milligrams per square centimeter (mg/cm^2) using the principle of x-ray fluorescence (XRF). Two types of XRF analyzers are used—direct readers and spectrum analyzers. In these *Guidelines*, the term XRF analyzer only refers to portable instruments manufactured to analyze paint, and does not refer to laboratory-grade units or portable instruments designed to analyze soil.

APPENDIX I

DISCLOSURE STATEMENT

LEAD BASED PAINT DISCLOSURE

"A copy of this summary must be provided to new lessees (tenants) and purchasers of this property under Federal Law (24 CFR Part 35 and 40 CFR Part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead based paint hazards."

Appendix C

ORM Site Photographs by ALL

EXTERIOR PHOTOGRAPHS (Taken December 14, 2011)

Photograph 1. Looking north at the front entrance of the hospital. Note brick exterior.

Photograph 2. Looking north at a close-up view of the front entrance to the hospital.

EXTERIOR PHOTOGRAPHS (Taken December 14, 2011)

Photograph 3. Looking south at the back (north side) of the hospital. Note location of pole mounted transformers.

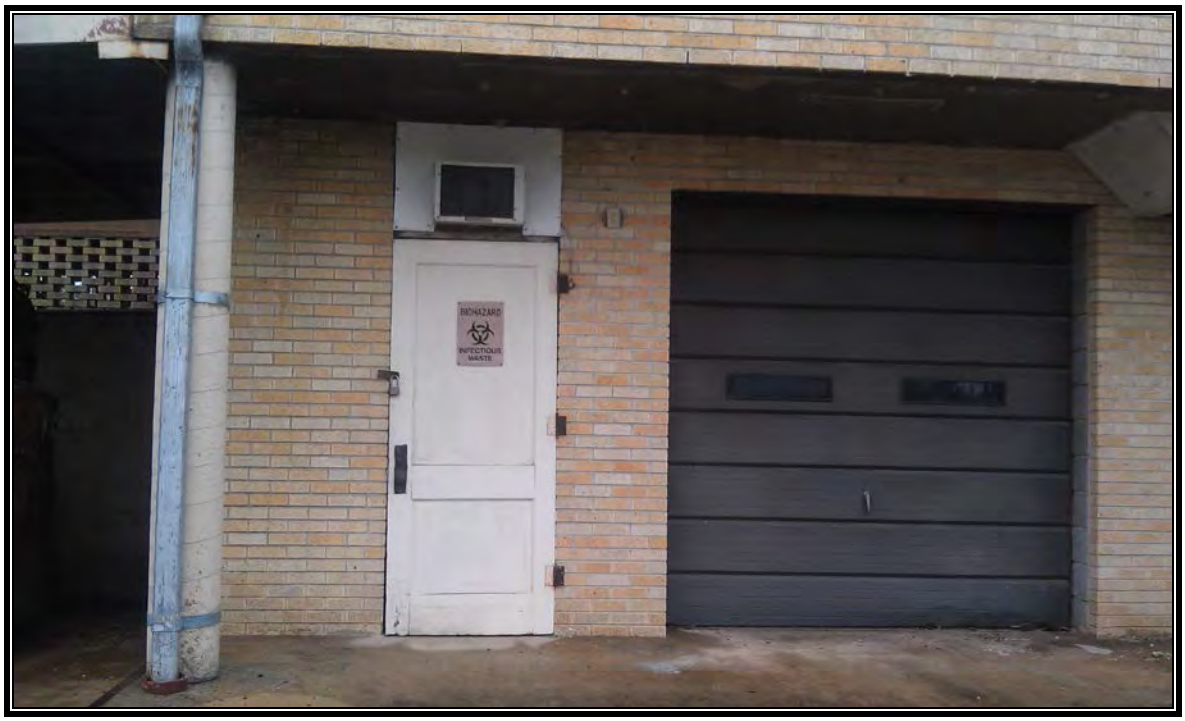
Photograph 4. Close-up of pole mounted transformers located at the north side of the hospital – appear to be in good condition.

EXTERIOR PHOTOGRAPHS (Taken December 14, 2011)

Photograph 5. Looking south at the medical waste incinerator and Biohazard area (see sign on white door.)

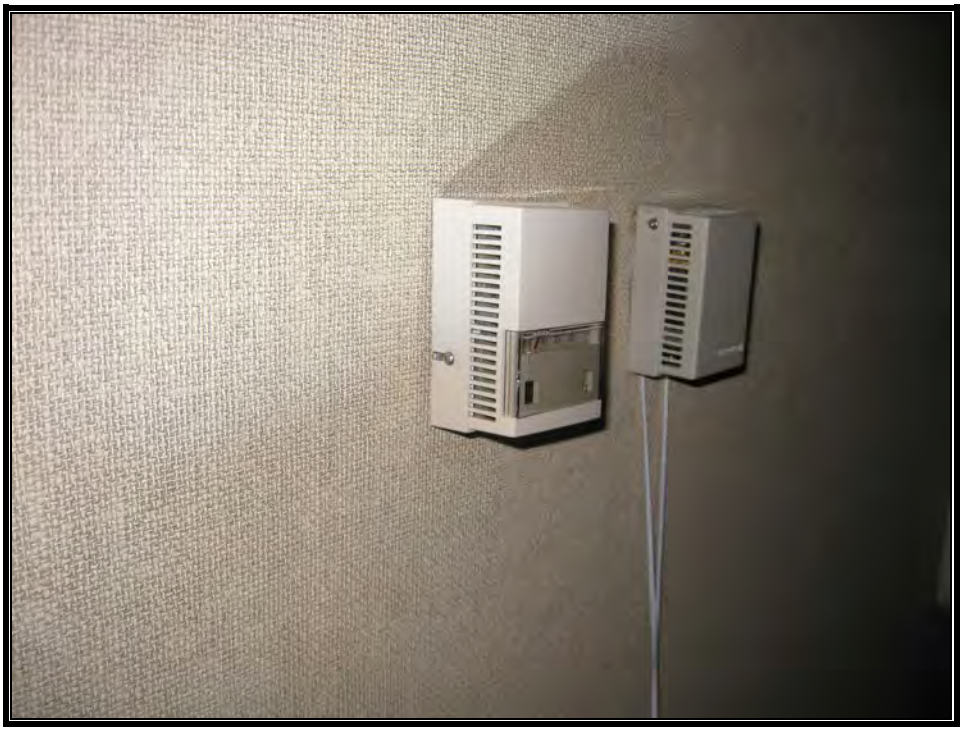
Photograph 6. Close up of the medical waste incinerator.

EXTERIOR PHOTOGRAPHS (Taken December 14, 2011)



Photograph 7. Entrance located next the incinerator with “Biohazard” warning.

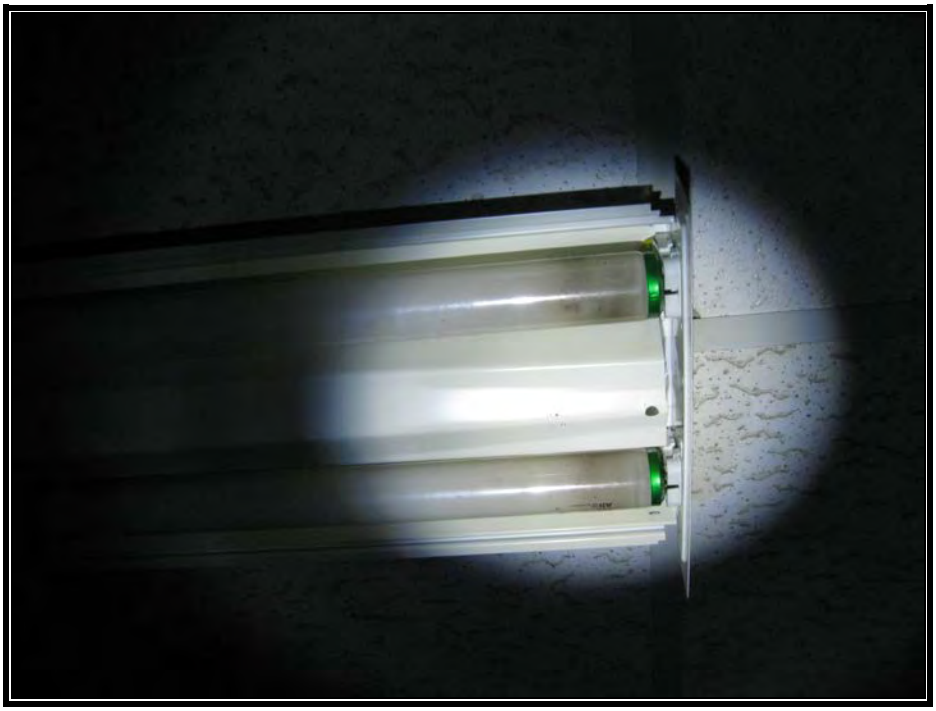
INTERIOR PHOTOGRAPHS (Taken December 14, 2011)



Photograph 8. Possible mercury-containing thermostats throughout building.

Photograph 9. Fluorescent light fixtures throughout building.

INTERIOR PHOTOGRAPHS (Taken December 14, 2011)



Photograph 10. Close up of Green-tipped fluorescent bulbs. Not all bulbs were green-tipped.

Photograph 11. Fluorescent light ballast – possibly containing PCBs.

INTERIOR PHOTOGRAPHS (Taken December 14, 2011)

Photograph 12. Looking through drop ceiling tiles at spray on insulation in east wing of first floor.

Photograph 13. Mold on ceiling – first floor west end of west wing.

INTERIOR PHOTOGRAPHS (Taken December 14, 2011)

Photograph 14. Buckled floor tiles in central hallway. Possible ACM.

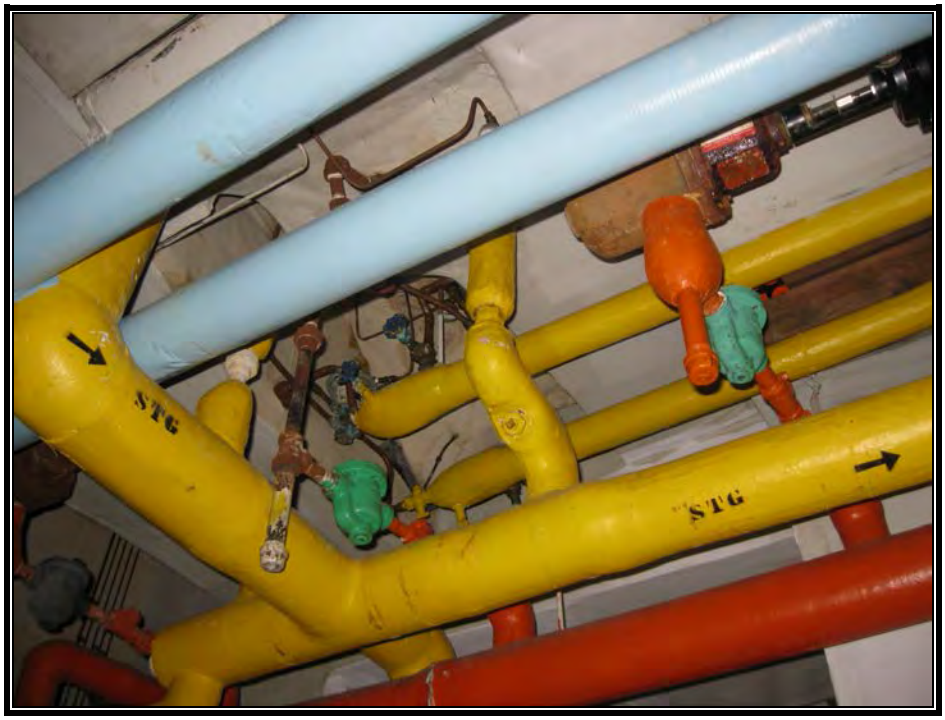
Photograph 15. Broken floor tiles in hallway near kitchen area – first floor.

INTERIOR PHOTOGRAPHS (Taken December 14, 2011)

Photograph 16. Wrapped pipes from boiler room throughout building.

Photograph 17. Utility closet on first floor with HVAC unit. Ductwork is coated with white friable insulation.

INTERIOR PHOTOGRAPHS (Taken December 14, 2011)



Photograph 18. Boiler Room in basement of east wing. Insulated pipes.

Photograph 19. Heat exchange unit and circulation pump in boiler room.

INTERIOR PHOTOGRAPHS (Taken December 14, 2011)

Photograph 20. Boiler unit (1 of 2) – Steam Generation from natural gas heat source.

Photograph 21. First floor utility room for elevator. Hydraulic oil spill. Note absorbent pads and material.

Photograph 22. Five gallon bucket of hydraulic oil in utility room for elevator.