SITEX Project No.: 13243

PHASE II ENVIRONMENTAL SITE ASSESSMENT (ESA)

Of

FRANKLIN COUNTY SHERIFF'S DEPARTMENT
1 BRUNS LANE
UNION, MISSOURI 63084

Prepared for:

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APPENDICES

EXECUTIVE SUMMARY

SITEX Environmental, Inc. (SITEX) was awarded the contract by Franklin County Purchasing Department to perform a Phase II Environmental Site Assessment (ESA) of the Franklin County Sheriff's Department located at 1 Bruns Lane Union, Missouri. This assessment was performed to determine the presence or absence of asbestos-containing materials (ACM), lead-based paint (LBP) as well as mold and other hazardous items for the purposes of building renovation and demolition. Bulk samples of suspect building materials were analyzed for asbestos content by Polarized Light Microscopy (PLM). Paint on surfaces was tested for lead content using an X-Ray Fluorescence (XRF) spectrum analyzer. Mold was sampled using Zefon® Air-O-Cell cassettes and/or tape lift samples. Miscellaneous hazardous materials were inventoried for identification and to be recycled or properly disposed.

SURVEY INTRODUCTION/SCOPE OF WORK

This survey was conducted by Robert Hill II through January 18, 2019 through January 21, 2019. The building is a one-story brick and cinderblock structure with a flat roof. The interior floor space is 54,500 square foot (SF) which houses several divisions including the Detective Bureau, Detention (Correctional Facility), Court Security, Road Patrol, Communications (Emergency Response), and the Franklin County Sheriffs County Department. Interior walls consisted of painted drywall, cinderblock, and concrete. Interior ceilings consisted of suspended ceiling tiles, painted drywall, or exposed corrugated ceiling decking and truss work. Various interior flooring materials included concrete, ceramic tile, carpeting, vinyl floor tile and vinyl floor sheeting.

ASBESTOS SURVEY SUMMARY TABLE DEFINITIONS

Sample Number

A number is assigned to each sample to track results. A homogenous area is defined as an area of material that is uniform in color, texture and age. Each homogenous area was given a distinct letter designation. An example of the numbering sequence is as follows:

FCSD-PI-01A

FCSD= Franklin County Sheriff's Department
PI = Pipe Insulation
01 = First sample taken from homogeneous area
A = First sample taken of material description

Sample Description

Describes the bulk sample material collected.

Approximate Quantity

Approximate quantity of ACM broken down by location.

Abbreviations

CA = Carpet Adhesive
CB = Cove Base
CI = Ceiling Insulation
CT = Ceiling Tile
CR = Ceramic Tile
D/BC = Door/Brick Exterior Caulk
DW = Drywall Joint Compound System
EI = Elbow Insulation
FT= Floor Tile
PI = Pipe Insulation
PL = Pipe Lagging
VC = Vinyl Wall Covering
WC = Window Caulk

Condition

Condition of the suspect material at the time of this inspection. This is based on the discretion of the inspector. The condition categories are as follows:

Good = no visible damage
Fair = minor damage
Poor = major damage, needs action as soon as possible

Accessibility

Indicates how accessible the suspect material is and to what group of people. The categories are as follows:

Low = material is inaccessible or access is very limited
Moderate = material is only accessible to maintenance personnel
High = material is accessible to the general public

Friability (Non-Friable versus Friable)

A designation to indicate friability (extent to which material, when dry, may be crushed, crumbled or reduced to powder with hand pressure):

Friability (Non-Friable versus Friable) Continued

No = non-friable
Yes = friable

Bulk Sample Results

Positive - > 1% Asbestos
Negative - < or = 1% Asbestos

The United States Environmental Protection Agency (U.S. EPA) guidelines for classifying asbestos containing material is any material that contains more than one percent (.1%) asbestos by visual estimated weight percent (% weight).

ASBESTOS PRE-RENOVATION SURVEY SUMMARY

SITEX collected one bulk sample of each homogeneous non-suspect yellow fiberglass with foil paper. Fiberglass with foil backing TSI pipe and elbow insulation materials was observed in the boiler room, jail water closets, and above the suspended ceilings in jail areas.

Assumptions

SITEX assumed that the exterior roof to be asbestos containing. Due to safety reasons at the time of the assessment, SITEX personnel did not gain access to the exterior roof.

SITEX did not sample approximately 600 SF of 16-inch by 16-inch pre-manufactured compressed board brown stone floor tile in front desk/service-counter area (installed 2015). SITEX is assuming floor tile adhesive is asbestos containing.

The following tables (Table 1 – Asbestos Pre-Renovation Survey Summary) summarize the asbestos bulk samples collected within the building interior and exterior.

ASBESTOS PRE-RENOVATION SURVEY SUMMARY

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	APPROXIMATE QUANTITY	CONDITION	ACCESSIBILITY	FRIABILITY	SAMPLE RESULTS
FCSD-PI-01	Boiler (Administration)	2” Pipe Insulation	1,850 LF	Good	Low	Yes	Negative
FCSD-PI-02	Boiler (Administration)	4” Pipe Insulation	1,350 LF	Good	Low	Yes	Negative
FCSD-PI-03	Boiler (Administration)	5” Pipe Insulation	1,750 LF	Good	Low	Yes	Negative
FCSD-PI-04	Boiler (Administration)	6” Roof Drain Pipe	700 LF	Good	Low	Yes	Negative
FCSD-EI-05	Boiler (Administration)	2” Elbow Insulation	120 Elbows	Good	Low	Yes	Negative
FCSD-EI-06	Boiler (Administration)	4” Elbow Insulation	160 elbows	Good	Low	Yes	Negative
FCSD-EI-07	Boiler (Administration)	5” Elbow Insulation	140 elbows	Good	Low	Yes	Negative
FCSD-EI-08	Boiler (Administration)	6” Elbow Insulation	90 elbows	Good	Low	Yes	Negative
FCSD-PL-9A	Boiler (Administration)	2” Pipe Lagging	350 SF	Good	Low	No	Negative
FCSD-PL-09B	Boiler (Administration)	4” Pipe Lagging	400 SF	Good	Low	No	Negative
FCSD-PL-09C	Boiler (Administration)	5” Pipe Lagging	300 SF	Good	Low	No	Negative
FCSD-CT-10	Medical Office (Jail)	2’x2’ Worm Burrows Ceiling Tile	41,500 SF	Good	Low	No	Negative
FCSD-CT-11	Medical Office (Jail)	12”x12” Worm Burrows Ceiling Tile	280 SF	Good	Low	No	Negative
FCSD-FT-12	Medical Office (Jail)	12”x12” Lt. Tan Mottled Floor Tile	350 SF	Good	High	No	Negative
FCSD-FT-13A	Hallway (Jail)	12”x12” Tan Mottled Floor Tile	40,875 SF	Good	High	No	Negative

ASBESTOS PRE-RENOVATION SURVEY SUMMARY

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	APPROXIMATE QUANTITY	CONDITION	ACCESSIBILITY	FRIABILITY	SAMPLE RESULTS
FCSD-FT-13B	Men's Restroom (Administration)	12"x12" Tan Mottled Floor Tile	40,875 SF	Good	High	No	Negative
FCSD-FT-13C	Hallway (Jail)	12"x12" Tan Mottled Floor Tile		Good	High	No	Negative
FCSD-FT-14A	Hallway (Jail)	12"x12" Brown Floor Tile	24 SF	Good	High	No	Negative
FCSD-FT-14B	Hallway (Jail)	12"x12" Brown Floor Tile		Good	High	No	Negative
FCSD-FT-14C	Hallway (Jail)	12"x12" Brown Floor Tile		Good	High	No	Negative
FCSD-CT-15	Control Room/ Communication/ Visitation (Jail)	2'x2' Textured Ceiling Tile	7,850 SF	Good	High	No	Negative
FCSD-CB-16	Intake Area (Jail)	4" Vinyl Black Cove Base w/Light Adhesive	9,000 LF	Good	Medium	No	Negative
FCSD-CT-17	Women's/Men's Rest Room/Lab (Administration)	2'x2' Ceiling Tile Spackle	1,500 SF	Good	Medium	No	Negative
FCSD-CB-18	Men's Restrooms (Administration)	4" Black Vinyl Cove Base w/Dark Adhesive	120 LF	Good	Medium	No	Negative
FCSD-VC-19	Road Room (Administration)	Tan Vinyl Covering	12,000 SF	Good	High	No	Negative
FCSD-CR-20	Men's and Women's Rest Rooms/Module Showers/Dressing Room (Jail)	Brown Ceramic Tile	8,750 SF	Good	High	No	Negative
FCSD-DW-21A	Road Room (Administration)	Drywall (Wall)	48,000 SF	Good	Medium	No	Negative

ASBESTOS PRE-RENOVATION SURVEY SUMMARY

SAMPLE NUMBER	SAMPLE LOCATION	SAMPLE DESCRIPTION	APPROXIMATE QUANTITY	CONDITION	ACCESSIBILITY	FRIABILITY	SAMPLE RESULTS
FCSD-DW-21B	Intake Rest Room (Jail)	Drywall (Ceiling)	48,000 SF	Good	Medium	No	Negative
FCSD-DW-21C	Men's Rest Room (Administration)	Drywall (Wall)		Good	Medium	No	Negative
FCSD-DW-21D	Exam Room (Jail)	Drywall (Ceiling)		Good	Medium	No	Negative
FCSD-DW-21E	Lab Hallway (Administration)	Drywall (Wall)		Good	Medium	No	Negative
FCSD-CT-22	Lobby (Main Entrance)	2'x2' Wavy Textured Ceiling Tile	510 SF	Good	Medium	No	Negative
FCSD-CI-23	Class Room (Administration)	Ceiling Insulation	480 SF	Good	Low	No	Negative
FCSD-CA-24	Civic Room (Administration)	Light Yellow Carpet Adhesive	3,000 SF	Good	Low	No	Negative
FCSD-CA-25	Detectives Office (Administration)	Dark Yellow Carpet Adhesive	3,500 SF	Good	Low	No	Negative
FCSD-D/BC-26	Exterior Door (Jail)	Door/Brick Caulk	2,950 LF	Good	Low	No	Negative
FCSD-WC-27	Outdoor Recreation Window (Jail)	Window Caulk	18, 500 LF	Good	Medium	No	Negative
FCDS-WC-28	Exterior Window (Jail)	Window Caulk	850 LF	Good	Low	No	Negative

Notes:
Listed items in red denote asbestos containing building materials (ACBMs).
Bulk samples were analyzed using Polarized Light Microscopy (PLM) which is based on a total visual estimated weight percentage.
Negative = A non-regulated material containing less than one percent asbestos (<1%).
Positive = A regulated material containing asbestos greater than one percent (>1%).
Positive Stop = The next sample is not analyzed by the laboratory and is assumed to be asbestos containing based on its homogeneity with the remaining bulk sample set.
N/A = Not Applicable (non-asbestos)

ASBESTOS SAMPLING AND ANALYTICAL PROCEDURES

Random bulk samples, representative of the suspect asbestos-containing building materials of each homogeneous area, were collected. Representative sampling is based on the following criteria:

1. The distribution of the suspect material throughout the homogeneous area.
2. The suspect material's physical characteristics and application.
3. Random sampling patterns determined for each homogeneous area.

Suspect materials, sampled and analyzed should be considered to be representative of materials in each homogeneous area if:

1. They exhibit similar physical characteristics. (I.e. color, texture).
2. The application of the sampled material can be correlated to the application of unsampled material by physical appearance and time of application.

All bulk samples collected were analyzed using the Environmental Protection Agency's Method for the Detection of Asbestos in Bulk Samples (EPA 600/M4-82020, December 1982) and the McCrone Research Institute's the Asbestos Particle Atlas as method references.

The bulk samples were collected on January 21, 2019. A total of thirty-eight (38) bulk samples were collected for asbestos analysis by Robert H. Hill II. SITEX was responsible for determining if asbestos is present in this area, and if present, the quantity, condition and estimated cost to abate the materials. The samples, along with the proper Chain-of-Custody forms were sent to EMSL Laboratories, LLC for bulk sample analysis. The analysis of the bulk samples was performed on January 21, 2019. EMSL is a NVLAP accredited environmental laboratory. A copy of the laboratory bulk sample analysis is included in this report as APPENDIX A – Asbestos Bulk Sample Laboratory Analysis report. A copy of the NVLAP accreditation is included in this report as APPENDIX B – Laboratory Accreditation.

XRF LEAD-BASED PAINT PRE-RENOVATION SURVEY SUMMARY

The XRF lead paint survey shots are included in this report and summarized in APPENDIX C – XRF Lead Paint Survey Summary Sheets. An X-ray Fluorescence analyzer spectrum (XRF) was used for the lead survey. The InnoV-X Systems Delta Standard (model DS-4000, Serial #501736) was calibrated by the manufacturer. A copy of XRF Manufacturer's calibration and the field calibration is included with this report as APPENDIX D – XRF Certificate of Calibration.

XRF Lead Shot Sample Identification Designation

Each lead shot taken was immediately recorded onto the Lead Paint Survey field data sheet. The lead shot sample identification number consists of a sequential three-digit whole number

beginning with 001 and ending with the last shot taken (which includes pre-and post-calibration). An example of the numbering sequence is as follows:

001 = First shot taken for the lead survey

Lead Survey Paint Field Log Sheet

The lead paint survey field data sheet includes the shot number, shot location, a description of the building component shot, its condition, paint substrate, paint color, XRF shot results, positive/negative, and estimated quantity. The following paragraphs provide an explanation of the above-mentioned terms used on the lead paint survey data sheet.

Shot Number

The shot number is a three-digit sequential number beginning with 001. The shot number includes pre- and post-calibration shots, and quality control shots (duplicates or re-takes).

Shot Location

Describes the shot's physical location of the painted building component within the facility exterior or interior.

Component

Describes the painted building component material being tested.

Condition

Describes the physical condition of the building component material. Three physical conditions exist which include intact, fair or poor as described in these categories.

Intact: Exterior surfaces with large surface areas with no deteriorated paint.

Intact: Interior surfaces with large surface areas with no deteriorated paint.

Intact: Interior and Exterior components with small surface area with no deteriorated paint.

Deteriorated: Exterior components with large surface area more than 10 square feet of deteriorated paint or, Interior components with large surface more than 2 square feet of deteriorated paint or interior and exterior components with small surface area more than 10 percent (10%) of the total surface area of the component.

Substrate

Defines the composition of the material (concrete, metal, and wood, plastic) to which the paint is adhered to.

Color

Provides the physical description of the color of the painted building component. Color helps the lead-risk assessor determine homogenous areas (similar painting history), and can assist with certain types of older paint known to contain lead (battleship gray, red).

Results

Shows the units of measure for the painted building component. For purposes of this survey, the XRF direct-reading instrument displays the lead content in milligrams per square centimeter (mg/cm^2). This measure of unit can be directly compared to the federal HUD guideline definition of LBP.

Positive/Negative

The determination of whether a painted component is positive or negative is given by the XRF direct-reading measurement displayed in mg/cm^2. Painted building components which are equal to (=) or greater than (>) 1.0 mg/cm^2 are considered to be lead-based paint (LBP). LBP is regulated under the United States Environmental Protection Agency (USEPA), and HUD federal regulatory lead standards, and State of Missouri state lead regulations.

Painted building components which do not exceed (<) 1.0 mg/cm^2 are not considered to be LBP and are not regulated. However, the Occupational Safety and Health Administration (OSHA) regulates lead exposure to workers. OSHA considers any amount of lead in a painted building component to be a lead-containing material (LCM). According to OSHA, LCMs have the potential to create lead exposure hazards to workers.

For purposes of this survey the following terms will be used to represent the following:

Positive: Painted component which contains > or = 1.0 mg/cm^2 lead content.
Negative: Painted component which contains < 1.0 mg/cm^2 lead content.

Painted components which are listed as positive are LBP and are considered to be regulated materials.

Painted components which are negative are LCM and are considered to be non-regulated materials.

Quantity

The approximate estimated quantities of the lead building component expressed as square feet (SF), linear feet (LF), or each (Each).

Pre- and post-calibration shots do not have a quantity associated with these shots.

Regulatory Guidance

Lead-based paint is considered 1.0 milligrams per square centimeter (mg/cm^2) for the XRF instrumentation, or 0.5 lead percent by weight (% weight) if a physical lead paint chip sample had been collected.

Lead sampling methodology followed the federal United States Department of Urban and Housing Development. (HUD) sampling protocols. The XRF instrument was pre- and post-calibrated using a manufactured coin, a negative plastic-coated lead template (SRM 2570), and a positive plastic-coated lead template (SRM 2573).

According to the Resource Conservation Recovery Act (RCRA) for Lead-Based Paint (LBP) renovation/demolition activities, general construction debris which contains lead must be analyzed by the Toxicity Characteristic Leaching Procedure (TCLP) to determine toxicity. Construction debris that exceeds 5 parts per million (ppm) will be disposed of as hazardous waste. Construction debris that is below 5 ppm is considered to be non-hazardous and be disposed into a sanitary landfill.

The Occupational Safety and Health Administration (OSHA) has determined that any level of lead in a substance is defines as a Lead Containing Material (LCM). When disturbing LCMs the contractor is held to specific work practices and employee protection in accordance with the Lead in Construction Standard 10 CFR 1926.62.

LEAD-BASED PAINT SAMPLING AND ANALYTICAL PROCEDURES

The direct-reading shots were taken on January 28, 2019. Two hundred forty-five (245) shots were taken by State of Missouri Lead Risk-Assessor Robert H. Hill II. SITEX did not collect paint chip samples because the direct-reading instrument had no inconclusive readings.

MOLD PRE-RENOVATION SCREENING SUMMARY

SITEX collected seven discrete mold air samples (AIR01 through AIR07) within the building interior, and one air sample (AIR08) outside the main entrance to the building. SITEX also collected three tape lift samples (FCSD-MW-01, TAPE01, and TAPE02) within the jail area.

Mold air and tape lift samples were collected in areas with visible moisture, and/or where suspect mold was observed.

MOLD SAMPLING AND ANALYTICAL PROCEDURES

SITEX collected mold air samples using a Zefon® Air-O-Cell cassette, in conjunction with an electric air sampling pump set at a rate of approximately 15 liters per minute (LPM). The air samples ran for 10 minutes, as recommended by the manufacturer, for a total volume of 150 liters (L). SITEX pre- and post- calibrated the air sampling pump during air sample activities using a secondary rotameter calibrated to a Dry Cal primary standard having Serial Number 120071. The Dry Cal instrument was within calibration (Certification No. 5051923).

SITEX collected tape lift samples using a clean microscopic clear glass slide and clear tape. SITEX gently stuck the "sticky side" of the clear tape on the surface of the plaster wall suspected to contain mold. The tape was then placed on the microscopic slide (sticky side down). The purpose of the tape lift sample was to determine if mold was present on the plaster wall beneath the window.

SITEX labeled, packaged, and transported the samples to an accredited environmental laboratory. The samples were transported to an American Industrial Hygiene Association (AIHA) accredited laboratory EMSL Analytical, Inc. (EMSL) following the proper chain-of-custody (COC) protocol. All microbiological mold samples were analyzed by direct examination using a microscopist trained in identifying mold specie types. Mold air (collected inside and outside the building), and tape lift samples analytical results collected inside targeted jail areas are included with this report as APPENDIX E – Microbiological Mold Laboroatyr Analysis Report.

The United States Environmental Protection Agency (U.S. EPA) recommends that visible mold be removed from occupied areas to alleviate potential health concerns. U.S. EPA guidelines state that minimal precautions (as taken by a professional mold remediation company) are typically required when there is less than 10 square feet of building material impacted by mold. Larger affected areas would require additional precautions with greater than 100 square feet affected requiring full containment and full protective measures.

In Missouri, there are no federal, state or local regulations governing exposure to microbiological agents. Industry standards suggest that when taking air samples, inside samples should be compared to outside samples, or samples taken from indoor areas believed to have no mold issues.

Generally speaking, indoor airborne mold levels should be equal to or lower than outdoor levels, and indoor airborne mold levels should be consistent within the building. However, professional judgment is required when outdoor levels are very high or very low. A high indoor sample could mistakenly be judged acceptable if compared to a very high outdoor sample and a low indoor sample could mistakenly be judged unacceptable if compared to a very low outdoor sample. A total mold count of 2,000 spores/m^3 or less is considered typical background airborne mold levels

for areas with no mold growth and that 2,000 spores/m^3 thresholds is part of the professional judgment when outdoor or other comparison samples are very high or low.

Mold Air Sampling

SITEX collected seven (7) discrete mold air samples within the building interior. One air sample was collected in the men's locker room located in the administrative area (AIR01). One air sample was collected in the evidence room located in the administrative office area (AIR02). One air sample was collected in the interior lobby located at the main entrance (AIR03). One air sample was collected in the booking area located in the jail (AIR04). One air sample was collected in the kitchen located in the jail (AIR05). One air sample was collected in the laundry room located in the jail (AIR06). One air sample was collected outside the control center in the jail (AIR07). The purpose of inside air samples was to determine if mold was present, and if present, the ambient mold concertation levels for these occupied spaces. SITEX also collected one air sample (AIR08) located outside the building at the west exterior main entrance. This sample was collected at the outside of the building interior for comparison to the inside air samples.

Mold Air Sampling Results

The following table summarizes the air sample results collected within the building interior and exterior.

Table 2

Mold Air Samples

Mold Air Sampling Results								
Location	**Men's Locker Room**	**Evidence Room**	**Lobby**	**Booking (Jail)**	**Kitchen (Jail)**	**Laundry (Jail)**	**Outside Control Center (Jail)**	**West Entrance (Outside)**
Sample ID	**AIR01**	**AIR02**	**AIR03**	**AIR04**	**AIR05**	**AIR06**	**AIR07**	**AIR08**
Spore Types	**Airborne Mold Concentration Level (Count/m^3)**							
Alternaria	10							
Ascospores			7					**200**
Aspergillus/Penicillium	70		90	100		20		**240**
Basidiospores					20	20	40	**260**
Cladosporium		20				20	40	**200**
Myxomycetes			10					
Sterigmatobotrys								
Stachybotrys								**70**
Total Fungi	**80**	**20**	**107**	**100**	**40**	**60**	**80**	**970**

The airborne mold concentration levels for all inside air samples collected were well below the outside air sample mold concertation level for the mold specie types Ascospores, Aspergillus/Penicillium, Basidiospores, and Cladosporium. Two mold species identified as Alternaria and Myxomycetes, were not detected in the outside sample, but were well below background levels. Additionally, the mold specie type Stachybotrys, was only identified in the outside air sample.

Mold Tape Lift Sampling

SITEX collected one sample (FCSD-MW-01) of black suspect mold material on the shower ceiling in Module H. SITEX collected one sample (TAPE01) of light gray suspect mold material on the shower ceiling of Module I. SITEX collected one sample (TAPE02) of the shower ceiling in Module J.

Mold Tape Lift Results

The following table summarizes the air sample results collected within the building interior and exterior.

Table 3

Mold Tape Lift Sample Results

Location	Module H Shower (Jail)	Module I Shower (Jail)	Module J Shower (Jail)
Sample ID	**FCSD-MW-01**	**TAPE01**	**TAPE02**
Spore Types	**Tape Lift Mold Concentration Level (Count/area)**		
Alternaria	--	--	--
Ascospores	--	--	--
Aspergillus/Penicillium	--	--	--
Basidiospores	--	--	--
Cladosporium	High	--	--
Myxomycetes	--	--	--
Sterigmatobotrys	--	--	--
Stachybotrys	--	--	--
Total Fungi	**High**	None	None

Notes:

-- = No mold specie types reported.
High = Mold specie type counts per area analyzed equals greater than 1000 mold specie spore counts.

The tape lift sample FCSD-MW-01 was reported with “High” counts for the mold specie type Cladosporium. SITEX was requested by the Franklin County Sheriff’s Department to remove the mold in this module. Mold remediation activities included the removal of

mold from Module H shower ceiling, walls, and floor. Additionally, the adjoining ceiling was also impacted with mold and required remediation. A remedial action plan was developed for this work which is included in this report

Tape lift samples TAPE01 and TAPE02 were reported with no mold specie counts denoting no mold specie types were present on the tape lift samples.

DIRECT-READING MEASUREMENT PROCEDURES

SITEX collected eight direct-reading measurements concurrently while collecting the mold air samples. Additionally, two direct-reading measurements were taken in the old classroom and women's locker room. The direct-reading measurements were taken to concurrently with the mold air samples to document indoor air quality throughout the building interior and as a comparison to the outdoor mold air sample.

Direct-reading Measurement Recordings

Direct-reading measurements were recorded with a Q-TRAK Model No. 7575 X-Meter. The meter recorded carbon monoxide (CO), carbon dioxide (CO2), temperature (degrees Fahrenheit), and relative humidity (RH). The parameters are summarized below in tabular format.

Direct-Reading Measurement Results

The following table summarizes the direct-reading measurements recorded within the building interior and exterior.

Table 4

Direct-Reading Measurement Readings

Location	Old Classroom	Men's Locker Room	Women's Locker Room	Evidence Room	Lobby	Booking	Kitchen	Laundry	Outside Control Center	West Main Entrance	OSHA Limits/ASHRAE Guidance
Time	8:25 a.m.	8:31 a.m.	8:36 a.m.	8:45 a.m.	9:05 a.m.	9:10 a.m.	9:25 a.m.	9:41 a.m.	9:55 a.m.	10:01 a.m.	
Temperature	66.9	67.9	66.0	65.1	68.6	68.1	67.9	67.8	64.5	45.5	67-82*
RH	18.4	17.1	16.3	15.8	20.0	16.9	18.9	16.2	21.0	60.4	60% to <65% **
Carbon Monoxide	0.8	1.0	0.7	0.5	0.8	0.9	0.5	0.4	0.4	0.6	1,500 ppm†
Carbon Dioxide	609	613	576	546	643	664	529	529	615	409	30,000 ppm††

Notes:
* = Temperature in Fahrenheit degrees.
** = Relative Humidity (RH) expressed as the percentage of water vapor in air for the amount needed for saturation at the same temperature.
† = Occupational Safety and Health Administration (OSHA) as maximum instantaneous exposure limit for CO.
†† = OSHA 15-minute short term exposure limit (STEL) for CO2.

HAZARDOUS MATERIALS PRE-RENOVATION INVENTORY SUMMARY

SITEX performed an inventory of hazardous and universal materials throughout the facility. The inventory consisted of visually observing targeted items for identification and quantification, and listing those items to be properly managed prior to renovation and/or demolition activities.

HAZARDOUS INVENTORY PROCEDURES

Identified hazardous materials which were encountered within the building interior and exterior during the assessment were recorded. The product name, size of container and quantity was recorded. The extensive inventory is included in this report. The complete inventory of the hazardous and/or universal items are listed in APPENDIX F – Hazardous Materials Inventory.

Hazardous Inventory Documentation

The hazardous inventory was performed by documenting hazardous and/or universal items which were suspected to be impacted during planned renovation or demolition activities. Hazardous or universal items were inventoried, which included the generalized location of the item, product name, size of container, and quantity.

Hazardous Inventory List

The complete inventory of the hazardous and/or universal items are listed in APPENDIX F – Hazardous Materials Inventory.

SURVEY TEAM

SITEX experienced environmental professional who performed the assessment was Robert H. Hill II. Robert H. Hill II is accredited in Missouri as an asbestos inspector and lead-risk assessor. Robert H. Hill II is also certified by the Institute of Hazardous Materials Management as a Certified Hazardous Material Manager (CHMM). Individual certifications are included in this report as APPENDIX H – Individual certifications

Limitations

All samples taken during this project are limited to representing conditions at the time of sampling. Sitex was not provided access to the exterior roof during the asbestos survey. These results do not imply nor deny conditions that may have existed prior to our sampling or inspection. This inspection and sampling were performed in a thorough and professional manner consistent with industry standards.

Disclaimer

The ACM survey, LBP screening, mold assessment and hazardous material inventory are representative at the time of the assessment. SITEX performed limited destructive sampling in discrete areas or areas where damage had already been sustained. The analytical results are valid only for all bulk and mold samples collected, and XRF shots taken for this assessment.

If during renovation and/or demolition activities, additional suspect asbestos and/or lead is uncovered, SITEX recommends that a State of Missouri licensed asbestos or lead inspector collect a bulk sample for analysis to determine the presence of asbestos or taken additional shots to determine the presence of lead.

ASSESSMENT CONCLUSIONS

SITEX performed a hazardous materials inspection of Franklin County Sheriff's Department located at 1 Bruns Lane in Union, Missouri in preparation of planned demolition and renovation. SITEX took photographs of identified LBP material, and mold air and tape lift samples collected within the building interior. Photographs of these materials are included in this report as APPENDIX G – Photograph log.

State of Missouri accredited asbestos inspector, lead risk assessor, and Certified Hazardous Material Manager (CHMM) Robert H. Hill II performed the Phase II ESA at the facility. Individual certifications are included in this report as APPENDIX H – Individual certifications

Asbestos Containing Materials (ACM)

Based on the bulk samples collected and review of laboratory analytical results, no ACM was identified on the interior or exterior of the building.

Lead-Based Paint Building Components

SITEX identified LBP building components which include the following items:

Loading Dock Area

177 – Yellow Lift Platform Yellow – Approximately 50 SF
178 – Yellow Lift Frame – Approximately 30 LF

Additionally, the results indicate that some of the paint does contain lead below 1.0 mg/cm^2. The Occupational Safety & Health Administration (OSHA) regulations require proper handling and safety precautions when working with any amount of lead-containing paint. SITEX recommends that the use of cutting equipment that will raise the temperature of the lead-containing surface above 250^o F be prohibited.

SITEX recommends that the demolition/renovation contractor follow all applicable OSHA regulation regarding lead-containing substances

Mold Air Sampling

SITEX collected seven indoor (AIR01 through AIR07) and one (AIR08) outdoor mold air samples. The indoor air mold samples were well below the outdoor mold air sample. Additionally, the indoor air mold samples are well below background levels.

Mold Tape Lift Sampling

SITEX collected three (FCSD-MW-01, TAPE01, and TAPE02) tape lift samples. The tape lift sample (FCSD-MW-01) was reported with "high" counts of the mold specie type Cladosporium.

The other two tape lift samples (TAPE01 and TAPE02) were not detected to contain mold specie types.

Hazardous Inventory

SITEX identified numerous hazardous materials including but not limited to which require removal prior to renovation and/or demolition activities.

REMEDIAL ACTION PLANS

Lead Based Paint

The following is a summary of the proposed lead stabilization remedial action plan. LBP stabilization should be done to minimize further damage and protect the identified LBP. The identified LBP is intact, however, a warning label and/or signs should be placed on the item to make building occupants and maintenance personnel aware of the presence of lead.

Work Area Location	Building Material	Action	Estimated Quantity
1st Floor Loading Dock Area	LBP on Lift Platform and frame	Maintenance Personnel are required to have lead awareness training (if adopted 29 CFR 1910.1025). Stabilization of the painted is required to be performed by a licensed State of Missouri licensed lead abatement contractor using wet manual removal methods. Stabilization methods include removing any loose LBP using wet manual removal methods or approved chemical stripper. LBP can then be covered an industry approved non-leaded paint. Grinding, sanding, scrapping or burning of LBP is strictly prohibited.	120 SF

Work Area Location	Building Material	Action	Estimated Quantity
		Total impacted area:	**120 SF**
		Estimated Cost Estimate:	**$3,000.00 to $5,000.00**

Mold Remediation

The following is a summary of the proposed mold remedial action plan. Mold can be prevented by removing moisture, and improving ventilation in occupied spaces. The identified mold was removed, however, building occupants should bring concerns of mold to maintenance personnel and HVAC contractors when water infiltration or water leaks or damage from mechanical or plumbing systems occurs, physical discomfort arise from poor indoor air quality, or visible suspect mold is observed.

Table 7: ACM, Mold/Water and LBP-Damaged Abatement Scope of Work

Work Area Location	Building Material	Action	Estimated Quantity
Module H Shower (Jail)	Mold on Drywall Ceiling, Walls and floor.	Use 6-mil thick black plastic sheeting to cover windows. Remove mold-impacted loose items. Pre-clean vent openings by hand cleaning with an approved fungicide, and HEPA vacuum. Once cleaned, seal openings with clean adhesive duct tape. Construct a containment under negative-pressure with attached decontamination unit. Exhaust negative air exhaust outside or "piggyback" with another negative air unit. Apply an antimicrobial fungicide and wipe all horizontal and vertical surfaces with visible mold inside work area. Stubborn mold blooms may require cleaning with a HEPA vacuum. Use an industry mold inhibitor encapsulant to all surfaces to prevent future mold growth. Collect independent or third-party clearance tape lift samples on cleaned surfaces to document contractor cleanliness.	60 SF
		Total impacted area:	**60 SF**
		Estimated Cost Estimate:	**$ 4,800.00 to $ 5,000.00**

Hazardous Material Inventory

It is not known whether the current building occupant will remove these hazardous substances prior to renovation and/or demolition activities. Therefore, the hazardous materials which are not taken off-site and left behind, will require proper packaging and labeling prior to being recycled or properly disposed off-site.

Universal items including but not limited to exit signs, door actuators, light ballast, fluorescent bulbs, fire extinguishers, fire alarms, thermostats, and smoke alarms was also observed throughout the building and inventoried as part of the hazardous material inventory. The universal items which are not taken off-site and left behind, will require proper packaging and labeling prior to being recycled or properly disposed off-site.

SITEX recommends that the above-mentioned items be stored in an area which will not be impacted by planned renovation or demolition activities. At that time, the items can be cataloged and packaged properly and labeled to be properly recycled or disposed off-site.

An estimated ballpark cost estimate would be $5,000.00 to $8,000.00 for packaging, transportation, manifesting, and closeout report.

If any additional information is requested or needed please do not hesitate to contact our office at (314) 421-0600 or my cell phone (618) 795-0502.

Sincerely,
SITEX Environmental, Inc.

Robert H. Hill II, CHMM
Environmental/IH Manager

APPENDIX A

ASBESTOS BULK SAMPLE LABORATORY ANALYSIS REPORT

EMSL Analytical, Inc.

3029 S. Jefferson Saint Louis, MO 63118
Tel/Fax: (314) 577-0150 / (314) 776-3313
http://www.EMSL.com / saintlouislab@emsl.com

EMSL Order: 391900832
Customer ID: SEI50
Customer PO:
Project ID:

Attention: Robert Hill II
Sitex Environmental, Inc.
1525 South Broadway Avenue
Saint Louis, MO 63104

Project: Franklin County Sheriff Dept. 13423

Phone: (314) 421-0600
Fax: (314) 421-0234
Received Date: 01/29/2019 11:03 AM
Analysis Date: 02/02/2019 - 02/04/2019
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
FCSD-PL-01 *391900832-0001* *Calculated composite result.*		Various Fibrous Heterogeneous	3% Cellulose 86% Min. Wool	11% Non-fibrous (Other)	None Detected
FCSD-PL-02 *391900832-0002* *Calculated composite result.*		Various Fibrous Heterogeneous	3% Cellulose 84% Min. Wool	13% Non-fibrous (Other)	None Detected
FCSD-PL-03 *391900832-0003* *Calculated composite result.*		Various Fibrous Heterogeneous	3% Cellulose 85% Min. Wool	12% Non-fibrous (Other)	None Detected
FCSD-PL-04 *391900832-0004* *Calculated composite result.*		Various Fibrous Heterogeneous	3% Cellulose 86% Min. Wool	11% Non-fibrous (Other)	None Detected
FCSD-EL-05 *391900832-0005* *No calculated composite result needed.*		Yellow Fibrous Homogeneous	95% Min. Wool	5% Non-fibrous (Other)	None Detected
FCSD-EL-06 *391900832-0006* *No calculated composite result needed.*		Yellow Fibrous Homogeneous	96% Min. Wool	4% Non-fibrous (Other)	None Detected
FCSD-EL-07 *391900832-0007* *No calculated composite result needed.*		Yellow Fibrous Homogeneous	93% Min. Wool	7% Non-fibrous (Other)	None Detected
FCSD-EL-08 *391900832-0008* *No calculated composite result needed.*		Yellow Fibrous Homogeneous	94% Min. Wool	6% Non-fibrous (Other)	None Detected
FCSD-PL-09A *391900832-0009* *No calculated composite result needed.*		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-PL-09B *391900832-0010* *No calculated composite result needed.*		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-PL-09C *391900832-0011* *No calculated composite result needed.*		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-CT-10 *391900832-0012* *No calculated composite result needed.*		Various Fibrous Heterogeneous	29% Cellulose 38% Min. Wool	29% Perlite 4% Non-fibrous (Other)	None Detected

Initial report from: 02/04/2019 11:31:13

EMSL Analytical, Inc.
3029 S. Jefferson Saint Louis, MO 63118
Tel/Fax: (314) 577-0150 / (314) 776-3313
http://www.EMSL.com / saintlouislab@emsl.com

EMSL Order: 391900832
Customer ID: SEI50
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
FCSD-CT-11 *391900832-0013* *No calculated composite result needed.*		Various Fibrous Heterogeneous	66% Min. Wool	34% Non-fibrous (Other)	None Detected
FCSD-FT-12-12" x 12" *391900832-0014*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-12-Adhesive *391900832-0014A*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-13-12" x 12" *391900832-0015*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-13-Adhesive *391900832-0015A*		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-13B-12" x 12" *391900832-0016*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-13B-Adhesive *391900832-0016A*		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-13C-12" x 12" *391900832-0017*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-13C-Adhesive *391900832-0017A*		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-14A-12" x 12" *391900832-0018*		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-14A-Adhesive *391900832-0018A*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-14B-12" x 12" *391900832-0019*		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-14B-Adhesive *391900832-0019A*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-14C-12" x 12" *391900832-0020*		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-FT-14C-Adhesive *391900832-0020A*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-CT-15 *391900832-0021* *No calculated composite result needed.*		Various Fibrous Heterogeneous	4% Cellulose 67% Min. Wool	29% Non-fibrous (Other)	None Detected
FCSD-CB-16-Cove Base *391900832-0022* *No calculated composite result needed.*		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD-CB-16-Adhesive *391900832-0022A*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 02/04/2019 11:31:13

EMSL Analytical, Inc.
3029 S. Jefferson Saint Louis, MO 63118
Tel/Fax: (314) 577-0150 / (314) 776-3313
http://www.EMSL.com / saintlouislab@emsl.com

EMSL Order: 391900832
Customer ID: SEI50
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
No calculated composite result needed.					
FCSD-CT-17 *391900832-0023* *No calculated composite result needed.*		Various Non-Fibrous Heterogeneous	21% Cellulose	79% Non-fibrous (Other)	None Detected
FCSD CB-18-Cove Base *391900832-0024* *No calculated composite result needed.*		Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD CB-18-Adhesive *391900832-0024A* *No calculated composite result needed.*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD CB-18-Adhesive *391900832-0024B* *No calculated composite result needed.*		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD VC-19 *391900832-0025* *No calculated composite result needed.*		Tan Non-Fibrous Homogeneous	39% Fibrous (Other)	61% Non-fibrous (Other)	None Detected
FCSD CR-20-Ceramic Tile *391900832-0026* *No calculated composite result needed.*		White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD CR-20-Grout *391900832-0026A* *No calculated composite result needed.*		Brown Non-Fibrous Homogeneous		16% Quartz 84% Non-fibrous (Other)	None Detected
FCSD CR-20-Grout *391900832-0026B* *No calculated composite result needed.*		Gray Non-Fibrous Homogeneous		11% Quartz 89% Non-fibrous (Other)	None Detected
FCSD CR-20-Adhesive *391900832-0026C* *No calculated composite result needed.*		White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD DW-21A *391900832-0027* *Calculated composite result.*		Various Non-Fibrous Heterogeneous	27% Cellulose	73% Non-fibrous (Other)	None Detected
FCSD DW-21B *391900832-0028* *Calculated composite result.*		Various Non-Fibrous Heterogeneous	28% Cellulose	72% Non-fibrous (Other)	None Detected
FCSD DW-21C *391900832-0029* *Calculated composite result.*		Various Non-Fibrous Heterogeneous	19% Cellulose 7% Glass	74% Non-fibrous (Other)	None Detected
FCSD DW-21D *391900832-0030* *No calculated composite result needed.*		Various Non-Fibrous Heterogeneous	16% Cellulose 5% Glass	79% Non-fibrous (Other)	None Detected
FCSD DW-21E *391900832-0031*		Various Non-Fibrous Heterogeneous	17% Cellulose	83% Non-fibrous (Other)	None Detected

Initial report from: 02/04/2019 11:31:13

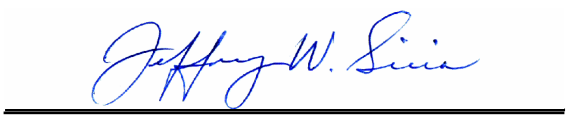
EMSL Analytical, Inc.
3029 S. Jefferson Saint Louis, MO 63118
Tel/Fax: (314) 577-0150 / (314) 776-3313
http://www.EMSL.com / saintlouislab@emsl.com

EMSL Order:	391900832
Customer ID:	SEI50
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
Calculated composite result.					
FCSD CT-22 *391900832-0032* *No calculated composite result needed.*		Various Fibrous Heterogeneous	5% Cellulose 68% Min. Wool	27% Non-fibrous (Other)	None Detected
FCSD CI-23 *391900832-0033* *No calculated composite result needed.*		Various Fibrous Homogeneous	96% Min. Wool	4% Non-fibrous (Other)	None Detected
FCSD CA-24 *391900832-0034* *No calculated composite result needed.*		Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD CA-25 *391900832-0035* *No calculated composite result needed.*		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD D/BC-26 *391900832-0036* *No calculated composite result needed.*		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD WC-27 *391900832-0037* *No calculated composite result needed.*		Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
FCSD WC-28 *391900832-0038* *No calculated composite result needed.*		Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)
Sue Ferrario (51)



Jeff Siria, Laboratory Manager
or Other Approved Signatory

Initial report from: 02/04/2019 11:31:13

CHAIN OF CUSTODY / LABORATORY WORK REQUEST

391900832

SITEX Environmental Inc.
1525 S. Broadway
St. Louis, MO 63104-4014

Phone: (314) 421-0600
FAX: (314) 421-0234

Project Name: Franklin County Sheriff Dept.
Project Address: 1 Bruns Lane
Union Missouri
63084

Invoice to: SITEX Environmental, Inc
1525 S. Broadway
St. Louis, Missouri 63104

Project # : 13423
Contact : Robert A Hall II

Date : 01/21/19
P.O. # :

Sample ID	Description	Date/Time Sampled	# of Cont	Type	Matrix: Bulk	Air	Water	Soil	Sludge	Preservative: Unpres.	HNO_3	NaOH	H_2SO_4	HCl	Cold	Analysis Required: PLM / DS	PLM - Composite
FCSD-PL-01	2" Pipe Insulation (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-PL-02	4" Pipe Insulation (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-PL-03	5" Pipe Insulation (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-PL-04	6" Roof Drain Pipe Insul (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-EL-05	2" Elbow Insulation (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-EL-06	4" Elbow Insulation (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-EL-07	5" Elbow Insulation (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-EL-08	6" Elbow Insulation (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-PL-09A	2" Pipe Lagging (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-PL-09B	4" Pipe Lagging (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-PL-09C	5" Pipe Lagging (Boiler)	01/21/19	1	Baggie	X					X							X
FCSD-CT-10	2'X2' Ceiling Tile Worm Burrows	01/21/19	1	Baggie	X					X							X
FCSD-CT-11	12"X12" Ceiling Tile Worm Burrows	01/21/19	1	Baggie	X					X							X
FCSD-FT-12	12"X12" Lt Tan Mottled (Tail)	01/21/19	1	Baggie	X					X						X	
FCSD-FT-13	12"X12" Tan Mottled (Tail)	01/21/19	1	Baggie	X					X						X	

Comments:

Stop at first positive per homogeneous area sample.

Relinquished By	Date/Time	Received By	Date/Time
Robert A Hall II	01/29/19	X [illegible]	1-29-19 11:03

Turn Around Time

- ___ < 8 hours
- ___ Same Day
- ___ 24 hour
- ___ 48 hour
- (X) 3-5 Day

Samples Taken By: RAH

OrderID: 391900832

CHAIN OF CUSTODY / LABORATORY WORK REQUEST

391900832

SITEX Environmental Inc.
1525 S. Broadway
St. Louis, MO 63104-4014

Phone: (314) 421-0600
FAX: (314) 421-0234

Project Name: Franklin County Sheriff Dept.
Project Address: 1 Bruns Lane, Union, Missouri 63084

Project #: 13423
Contact: Robert H. Hill IV

Invoice to: SITEX Environmental, Inc
1525 S. Broadway
St. Louis, Missouri 63104

Date: 01/21/19
P.O. #:

Sample ID	Description	Date/Time Sampled	# of Cont	Type	Matrix: Bulk	Air	Water	Soil	Sludge	Preservative: Unpres.	HNO_3	NaOH	H_2SO_4	HCl	Cold	Analysis Required: PLM / DS	PLM - Composite
FCSD-FT-13B	12"x12" TAN Mottled Mens RR	01/21/19	1	Baggie	X					X						X	
FCSD-FT-13C	12"x12" TAN Mottled Jail	01/21/19	1	Baggie	X					X						X	
FCSD-FT-14A	12"x12" Brown Jail Hallway	01/21/19	1	Baggie	X					X						X	
FCSD-FT-14B	12"x12" Brown Jail Hallway	01/21/19	1	Baggie	X					X						X	
FCSD-FT-14C	12"x12" Brown Jail Hallway	01/21/19	1	Baggie	X					X						X	
FCSD-CT-15	2'x2' Ceiling Tile Textured	01/21/19	1	Baggie	X					X							X
FCSD-CB-16	4" Black Vinyl Cove Base	01/21/19	1	Baggie	X					X							X
FCSD-CT-17	2'x2' Ceiling Tile Speckled	01/21/19	1	Baggie	X					X							X
FCSD-CB-18	4" Black Vinyl Cove Base	01/21/19	1	Baggie	X					X							X
FCSD-VC-19	Vinyl Covering Tan Road Room	01/21/19	1	Baggie	X					X							X
FCSD-CR-20	Ceramic Tile Brown Mens RR	01/21/19	1	Baggie	X					X							X
FCSD-DW-21A	Drywall - Road Room Wall	01/21/19	1	Baggie	X					X							X
FCSD-DW-21B	Drywall - Intake RR Ceiling	01/21/19	1	Baggie	X					X							X
FCSD-DW-21C	Drywall - Mens RR Admin	01/21/19	1	Baggie	X					X							X
FCSD-DW-21D	Drywall - Exam Room Ceiling	01/21/19	1	Baggie	X					X							X

Comments:

Stop at first positive per homogeneous area sample.

Relinquished By	Date/Time	Received By	Date/Time
Robert H. Hill IV	01/29/19	Kristy Barton	1-29-19 11:03

Turn Around Time

- ___ < 8 hours
- ___ Same Day
- ___ 24 hour
- ___ 48 hour
- X 3-5 Day

Samples Taken By: RHH

OrderID: 391900832

CHAIN OF CUSTODY / LABORATORY WORK REQUEST

391900832

SITEX Environmental Inc.
1525 S. Broadway
St. Louis, MO 63104-4014

Phone: (314) 421-0600
FAX: (314) 421-0234

Project Name: Franklin County Sheriff Dpt.
Project Address: 1 Bruns Lane, Union Missouri 63084

Invoice to: SITEX Environmental, Inc
1525 S. Broadway
St. Louis, Missouri 63104

Project # : 13423
Contact : Robert H. Hall II

Date : 01/21/19
P.O. # :

Sample ID	Description	Date/Time Sampled	# of Cont	Type	Matrix: Bulk	Air	Water	Soil	Sludge	Preservative: Unpres.	HNO_3	NaOH	H_2SO_4	HCl	Cold	Analysis Required: PLM / DS	PLM - Composite					
FCSD-DW-21E	Drywall lab Hall (wall)	01/21/19	1	Baggie	X					X							X					
FCSD-CT-22	2'x2' Ceiling Tile Lobby	01/21/19	1	Baggie	X					X							X					
FCSD-CI-23	Ceiling Insulation Cont.	01/21/19	1	Baggie	X					X							X					
FCSD-CA-24	Light Yellow Carpet adh.	01/21/19	1	Baggie	X					X							X					
FCSD-CA-25	Dark Yellow Carpet adh.	01/21/19	1	Baggie	X					X							X					
FCSD-DBC-26	Door/Brick Exterior Caulk	01/21/19	1	Baggie	X					X							X					
FCSD-WC-27	Window Caulk Rec. Jail	01/21/19	1	Baggie	X					X							X					
FCSD-WC-28	Window Caulk Exterior	01/21/19	1	Baggie	X					X							X					

Comments:

Stop at first positive per homogeneous area sample.

Relinquished By	Date/Time	Received By	Date/Time
Robert H. Hall II	01/29/19	X	

Turn Around Time

___ < 8 hours
___ Same Day
___ 24 hour
___ ~~48 hour~~
X 3-5 Day

Samples Taken By

OrderID: 391900832

APPENDIX B

LABORATORY ACCREDITATION

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200742-0

EMSL Analytical, Inc.

St. Louis, MO

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

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).

2018-04-01 through 2019-03-31

Effective Dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.
3029 South Jefferson
St. Louis, MO 63118
Dr. Jeff Siria Ph.D
Phone: 314-577-0150 Fax: 314-776-3313
Email: jsiria@emsl.com
http://www.emsl.com

ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 200742-0**

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

3029 S. Jefferson, St. Louis, MO 63118

Laboratory ID: 102636

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: May 01, 2020
✓	**ENVIRONMENTAL LEAD**	Accreditation Expires: May 01, 2020
☐	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires:
☐	**FOOD**	Accreditation Expires:
☐	**UNIQUE SCOPES**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Beth Bair

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 16: 03/21/2018

Date Issued: 04/30/2018

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

EMSL Analytical, Inc.
3029 S. Jefferson, St. Louis, MO 63118

Laboratory ID: **102636**
Issue Date: 04/30/2018

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 04/15/1999

IHLAP Scope Category	**Field of Testing (FoT)** (FoTs cover all relevant IH matrices)	**Technology sub-type/ Detector**	**Published Reference Method/Title of In-house Method**	**Method Description or Analyte** *(for internal methods only)*
Spectrometry Core	Inductively-Coupled Plasma	ICP/AES	NIOSH 7300 Modified	
			NIOSH 7303	
Asbestos/Fiber Microscopy Core	Phase Contrast Microscopy (PCM)		NIOSH 7400	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

APPENDIX C

XRF LEAD PAINT SCREENING SUMMARY SHEETS

LEAD PAINT SURVEY

Project Name: Franklin County Sheriff **Date Collected:** January 28, 2019

On-Site Technician: Robert Hill II **Project Number:** 13423

Project Location: 1 Bruns Ln. Union, Mo **Instrument Used:** Olympus Innov-X

SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
001	Calibration	Coin	N\A	Metal	Silver	PASS	N\A	N\A
002	Calibration	SRM2570	N\A	Plastic	White	0.00±0.00	Neg	N\A
003	Calibration	SRM2573	N\A	Plastic	Red	1.10±0.01	Pos	N\A
004	Classroom	Wall	Intact	Cinderblock	Brown	0.00±0.00	Neg	N\A
005	Classroom	Wall	Intact	Drywall	Brown	0.00±0.00	Neg	N\A
006	Classroom	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
007	Classroom	Wall	Intact	Drywall	Tan	0.00±0.00	Neg	N\A
008	Classroom	Door Frame	Intact	Metal	Beige	0.00±0.00	Neg	N\A
009	Road Supervisor	Door Frame	Intact	Metal	Beige	0.00±0.00	Neg	N\A
010	Hallway	Wall	Intact	Vdry	Pink	0.00±0.00	Neg	N\A
011	Hallway	Wall	Intact	Vdry	Tan	0.00±0.00	Neg	N\A
012	Breakroom	Wall	Intact	Cinderblock	Salmon	0.00±0.00	Neg	N\A
013	Breakroom	Cabinet	Intact	Vinyl	Blue	0.00±0.00	Neg	14 units
014	Men's Locker Room	Wall	Intact	Drywall	Blue	0.00±0.00	Neg	N\A
015	Men's Locker Room	Lockers	Intact	Metal	Orange	0.00±0.00	Neg	66 units
016	Men's Locker Room	Bench Post	Intact	Metal	Teal	0.00±0.00	Neg	N\A
017	Men's Locker Room	Bench	Intact	Wood	Varnish	0.01±0.00	Neg	2 units
018	Men's Locker Room	Lavatory Doors	Intact	Metal	Orange	0.00±0.00	Neg	2 units
019	Men's Locker Room	Counter	Intact	Vinyl	Orange	0.00±0.00	Neg	N\A
020	Men's Locker Room	Floor	Intact	Ceramic	Brown	0.02±0.00	Neg	N\A
021	Woman's Locker Room	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
022	Woman's Locker Room	Lockers	Intact	Metal	Blue	0.00±0.00	Neg	16 units
023	Woman's Locker Room	Lavatory Doors	Intact	Metal	Blue	0.00±0.00	Neg	2 doors
024	Woman's Locker Room	Counter	Intact	Vinyl	Blue	0.00±0.00	Neg	N\A
025	Woman's Locker Room	Floor	Intact	Ceramic	Brown	0.01±0.00	Neg	N\A
026	Woman's Locker Room	Wall	Intact	Drywall	Lt. Blue	0.00±0.00	Neg	N\A
027	Armory	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
028	Armory	Door	Intact	Metal	Tan	0.00±0.00	Neg	N\A
029	Armory	Door Frame	Intact	Metal	Tan	0.00±0.00	Neg	N\A
030	Armory	Counter	Intact	Vinyl	Black	0.00±0.00	Neg	N\A
031	Armory	Cabinet	Intact	Wood	Grey	0.00±0.00	Neg	N\A
032	Armory	Wall	Intact	Drywall	Tan	0.00±0.00	Neg	N\A
033	Armory	Vent Hood	Intact	Metal	Brown	0.01±0.00	Neg	N\A
034	Road Room	wall	Intact	Vdry	Tan	0.00±0.00	Neg	N\A

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SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
35	Vault	Frame	Intact	Metal	Grey	0.00±0.00	Neg	N\A
36	Vault	Door	Intact	Metal	Grey	0.00±0.00	Neg	N\A
37	Room 105	Wall	Intact	Cinderblock	Brown	0.00±0.00	Neg	N\A
38	Room 105	Wall	Intact	Drywall	Brown	0.00±0.00	Neg	N\A
39	Conference Room	Wall	Intact	Drywall	Yellow	0.00±0.00	Neg	N\A
40	Conference Room	Wall	Intact	Cinderblock	Yellow	0.00±0.00	Neg	N\A
41	Conference Room	Door Frame	Intact	Metal	Tan	0.00±0.00	Neg	N\A
42	Conference Room	Door	Intact	Wood	Brown	0.00±0.00	Neg	N\A
43	Supply Closet	Wall	Intact	Drywall	Lt. Brown	0.00±0.00	Neg	N\A
44	Supply Closet	Door Frame	Intact	Metal	Lt. Brown	0.00±0.00	Neg	N\A
45	Supply Closet	Ceiling	Intact	Drywall	Lt. Brown	0.00±0.00	Neg	N\A
46	Sheriffs	Wall	Intact	Cinderblock	Creme	0.00±0.00	Neg	N\A
47	Sheriffs	Wall	Intact	Drywall	Creme	0.00±0.00	Neg	N\A
48	Sheriff's Restroom	Wall	Intact	Drywall	Creme	0.00±0.00	Neg	N\A
49	Sheriff's Restroom	Ceiling	Intact	Drywall	Creme	0.00±0.00	Neg	N\A
50	Sheriff"s Restroom	Floor	Intact	Ceramic	Brown	0.01±0.00	Neg	N\A
51	Shefiff's Restroom	Door Frame	Intact	Metal	Creme	0.00±0.00	Neg	N\A
52	Lobby Counter	Ceiling	Intact	Drywall	White	0.00±0.00	Neg	N\A
53	Lobby Counter	Column	Intact	Drywall	Tan	0.00±0.00	Neg	N\A
54	Lobby Counter	Counter	Intact	Marble	Beige	0.07±0.00	Neg	N\A
55	Lobby Counter	Counter	Intact	Marble	Brown	0.00±0.00	Neg	N\A
56	Lobby	Wall	Intact	Cinderblock	Teal	0.01±0.00	Neg	N\A
57	Lobby	Floor	Intact	Ceramic	Brown	0.03±0.00	Neg	N\A
58	Lobby	Floor	Intact	Ceramic	Lt. Brown	0.02±0.00	Neg	N\A
59	Lobby	Wall	Intact	Cinderblock	Tan	0.01±0.00	Neg	N\A
60	Lobby	Wall	Intact	Cinderblock	Yellow	0.01±0.00	Neg	N\A
61	Lobby	Ceiling	Intact	Drywall	White	0.00±0.00	Neg	N\A
61	Lobby	Vent	Intact	Metal	White	0.00±0.00	Neg	N\A
62	Lobby	Door	Intact	Wood	Brown	0.00±0.00	Neg	N\A
63	Lobby	Door Frame	Intact	Metal	Tan	0.00±0.00	Neg	N\A
64	Jail	Door	Intact	Metal	Brown	0.00±0.00	Neg	8 units
65	Jail	Door Frame	Intact	Metal	Brown	0.00±0.00	Neg	8 units
66	Jail	Window	Intact	Metal	Brown	0.00±0.00	Neg	1 unit
67	Jail	Wall	Intact	Cinderblock	Mauve	0.00±0.00	Neg	N\A

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SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
68	Jail	Gun Locker	Intact	Metal	Blue	0.01±0.00	Neg	3 units
69	Jail Visitor	Wall	Intact	Cindrblock	Brown	0.00±0.00	Neg	N\A
70	Visitor	Wall	Intact	Cindrblock	Tan	0.00±0.00	Neg	N\A
71	Visitor	Div. Wall	Intact	Melanine	Mauve	0.00±0.00	Neg	N\A
72	Visitor	Stool Base	Intact	Metal	Yellow	0.00±0.00	Neg	N\A
73	Visitor	Counter	Intact	Viynl	Mauve	0.00±0.00	Neg	N\A
74	Visitor	Window	Intact	Wood	Brown	0.00±0.00	Neg	N\A
75	Comm.	Door	Intact	Metal	Bl. Grey	0.00±0.00	Neg	N\A
76	Comm.	Door Frame	Intact	Metal	Bl. Grey	0.00±0.00	Neg	N\A
77	Comm.	Window	Intact	Metal	Bl. Grey	0.00±0.00	Neg	N\A
78	Comm.	Wall	Intact	Cindrblock	Yellow	0.00±0.00	Neg	N\A
79	Comm.	Floor	Intact	Composite	White	0.00±0.00	Neg	N\A
80	IT Room	Wall	Intact	Cindrblock	Tan	0.00±0.00	Neg	N\A
81	IT Room	Wall	Intact	Drywall	Tan	0.00±0.00	Neg	N\A
82	IT Room	Power Panel	Intact	Metal	Grey	0.00±0.00	Neg	N\A
83	IT Room	Power Panel	Intact	Metal	Grey	0.00±0.00	Neg	N\A
84	IT Room	Power Panel	Intact	Metal	Black	0.00±0.00	Neg	N\A
85	Control Room RR	Ceiling	Intact	Drywall	White	0.00±0.00	Neg	N\A
86	Control Room RR	Wall	Intact	Cindrblock	Brown	0.00±0.00	Neg	N\A
87	Control Room RR	Wall	Intact	Drywall	Brown	0.00±0.00	Neg	N\A
88	Control Room RR	Floor	Intact	Ceramic	Brown	0.00±0.00	Neg	N\A
89	Control Room RR	Door	Intact	Wood	Brown	0.00±0.00	Neg	N\A
90	Control Room	Wall	Intact	Cindrblock	Blue	0.00±0.00	Neg	N\A
91	Control Room	Wall	Intact	Drywall	Tan	0.00±0.00	Neg	N\A
92	Control Room	Door Frame	Intact	Metal	Tan	0.00±0.00	Neg	N\A
93	Control Room	Window	Intact	Metal	Tan	0.00±0.00	Neg	N\A
94	Control Room	Fire Panel	Intact	Metal	Red	0.03±0.00	Neg	N\A
95	Control Room	Fire Ex. Box	Intact	Metal	White	0.01±0.00	Neg	N\A
96	Multi Purpose	Wall	Intact	Cindrblock	Blue	0.00±0.00	Neg	N\A
97	Multi Purpose	Wall	Intact	Cindrblock	Grey	0.00±0.00	Neg	N\A
98	Multi Purpose	Wall	Intact	Cindrblock	Brown	0.00±0.00	Neg	N\A
99	Multi Purpose	Wall	Intact	Cindrblock	Lt. Brown	0.00±0.00	Neg	N\A
100	Multi Purpose	Vent	Intact	Metal	White	0.00±0.00	Neg	N\A
101	Multi Purpose	Window	Intact	Metal	Grey	0.00±0.00	Neg	N\A

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SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
102	Multi Purpose	Door	Intact	Metal	Grey	0.00±0.00	Neg	N\A
103	Multi Purpose	Door Frame	Intact	Metal	Grey	0.00±0.00	Neg	N\A
104	Multi Purpose	Window Frame	Intact	Metal	Beige	0.00±0.00	Neg	N\A
105	Multi Purpose	Table Top	Intact	Metal	Brown	0.00±0.00	Neg	N\A
106	Multi Purpose	Table Frame	Intact	Metal	Brown	0.00±0.00	Neg	N\A
107	Main Hall	Wall	Intact	Cinderblock	Grey	0.00±0.00	Neg	N\A
108	Main Hall	Door	Intact	Metal	Lt. Blue	0.00±0.00	Neg	N\A
109	Main Hall	Door Frame	Intact	Metal	Lt. Blue	0.00±0.00	Neg	N\A
110	Main Hall	Window	Intact	Metal	Lt. Blue	0.00±0.00	Neg	N\A
111	Main Hall	DC Panel	Intact	Metal	Lt. Blue	0.00±0.00	Neg	N\A
112	Main Hall	Wall	Intact	Cinderblock	Dk. Blue	0.00±0.00	Neg	N\A
113	Main Hall	Door	Intact	Metal	Dk. Blue	0.00±0.00	Neg	N\A
114	Main Hall	Door Frame	Intact	Metal	Brown	0.00±0.00	Neg	N\A
115	Main Hall	Window	Intact	Metal	Dk. Blue	0.00±0.00	Neg	N\A
116	Main Hall	Wall	Intact	Cinderblock	Yellow	0.00±0.00	Neg	N\A
117	Main Hall	Door Frame	Intact	Metal	Brown	0.00±0.00	Neg	N\A
118	Main Hall	Coat Rack	Intact	Wood	Black	0.00±0.00	Neg	N\A
119	Main Hall	Door Frame	Intact	Metal	Dk. Blue	0.00±0.00	Neg	N\A
120	Sgt.'s Office	Wall	Intact	Cinderblock	Teal	0.00±0.00	Neg	N\A
121	Sgt.'s Office	Coat Rack	Intact	Wood	Blue	0.00±0.00	Neg	N\A
122	Chapel	Wall	Intact	Drywall	Mustard	0.00±0.00	Neg	N\A
123	Chapel	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
124	Closet	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
125	Closet	Ceiling	Intact	Drywall	White	0.00±0.00	Neg	N\A
126	Chapel	Door	Intact	Metal	Mustard	0.00±0.00	Neg	N\A
127	Chapel	Door Frame	Intact	Metal	Mustard	0.00±0.00	Neg	N\A
128	Chapel	Window	Intact	Metal	Mustard	0.00±0.00	Neg	N\A
129	Room 181	Wall	Intact	Cinderblock	White	0.00±0.00	Neg	N\A
130	Room 181	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
131	Room 181	Wall	Intact	Cinderblock	Pink	0.00±0.00	Neg	N\A
132	Room 181	Wall	Intact	Cinderblock	Bl. Geen	0.00±0.00	Neg	N\A
133	Room 181	Cabinet	Intact	Cinderblock	Salmon	0.00±0.00	Neg	N\A
134	Room 181	Cabinet	Intact	Cinderblock	Brown	0.00±0.00	Neg	N\A
135	Room 181	Cabinet	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A

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SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
136	Room 181	Vent	Intact	Metal	Tan	0.01±0.00	Neg	N\A
137	Room 181	Door	Intact	Metal	Tan	0.00±0.00	Neg	N\A
138	Room 181	Door Frame	Intact	Metal	Tan	0.00±0.00	Neg	N\A
139	Main Hall	Water Closet "D"	Intact	Metal	Lt.Blue	0.00±0.00	Neg	N\A
140	Main Hall	Water Closet Frame	Intact	Metal	Lt.Blue	0.00±0.00	Neg	N\A
141	Main Hall	Water Closet Door	Intact	Metal	Dk. Blue	0.00±0.00	Neg	N\A
142	Main Hall	Water Closet Frame	Intact	Metal	Blue\Grey	0.00±0.00	Neg	N\A
143	Main Hall	Water Closet Door	Intact	Metal	Blue\Grey	0.00±0.00	Neg	N\A
144	Captain's Office	Wall	Intact	Cinderblock	Yellow	0.00±0.00	Neg	N\A
145	Captain's Office	Door	Intact	Metal	Yellow	0.00±0.00	Neg	N\A
156	Captain's Office	Door Frame	Intact	Metal	Yellow	0.00±0.00	Neg	N\A
157	Captain's Office	Window	Intact	Metal	Yellow	0.00±0.00	Neg	N\A
158	Holding Cell 1	Wall	Intact	Cinderblock	Lt.Blue	0.00±0.00	Neg	N\A
159	Holding Cell 1	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
160	Holding Cell 1	Ceiling	Intact	Drywall	Tan	0.00±0.00	Neg	N\A
161	Holding Cell 1	Bed	Intact	Metal	Tan	0.00±0.00	Neg	N\A
162	Holding Cage	Wall	Intact	Cinderblock	Lt.Blue	0.00±0.00	Neg	N\A
163	Holding Cage	Seat	Intact	Metal	Dk. Blue	0.00±0.00	Neg	N\A
164	Holding Cage	Cage	Intact	Metal	Dk. Blue	0.00±0.00	Neg	N\A
165	Booking	Door	Intact	Metal	Dk. Blue	0.00±0.00	Neg	N\A
166	Booking	Door Frame	Intact	Metal	Dk. Blue	0.00±0.00	Neg	N\A
167	Booking	Window	Intact	Metal	Dk. Blue	0.00±0.00	Neg	N\A
168	Booking	Counter	Intact	Metal	Brown	0.00±0.00	Neg	N\A
169	Booking Closet	Window	Intact	Metal	Tan	0.00±0.00	Neg	N\A
170	Booking Closet	Access Card	Intact	Metal	Tan	0.00±0.00	Neg	N\A
171	Sign In	Door	Intact	Metal	Red	0.00±0.00	Neg	N\A
172	Sign In	Door Frame	Intact	Metal	Red	0.00±0.00	Neg	N\A
173	Storage	Garage Door	Intact	Metal	Red	0.00±0.00	Neg	N\A
174	Storage	Door Frame	Intact	Metal	Red	0.00±0.00	Neg	N\A
175	Storage	Ceiling	Intact	Metal	White	0.00±0.00	Neg	N\A
176	Storage	Wall	Intact	Metal	Yellow	0.00±0.00	Neg	N\A
177	Loading	Lift Platform	Intact	Metal	Yellow	1.04±0.02	Pos	N\A
178	Loading	Lift Frame	Intact	Metal	Yellow	1.46±0.17	Pos	N\A
179	Loading	Bollard	Intact	Metal	Yellow	0.46±0.19	Neg	12 Units

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SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
180	Traffic	Wall	Intact	Cinderblock	Sand	0.00±0.00	Neg	N\A
181	Traffic	Wall	Intact	Drywall	Sand	0.00±0.00	Neg	N\A
182	Lt. Albert	Wall	Intact	Cinderblock	Dk. Brown	0.00±0.00	Neg	N\A
183	Lt. Albert	Wall	Intact	Drywall	Brown	0.00±0.00	Neg	N\A
184	Lt. Albert	Door Frame	Intact	Metal	Brown	0.00±0.00	Neg	N\A
185	Road Clerk Office	Wall	Intact	Cinderblock	Blue	0.00±0.00	Neg	N\A
186	Hallway	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
187	Hallway	Wall	Intact	Cinderblock	Brown	0.00±0.00	Neg	N\A
188	Mop Closet	Wall	Intact	Drywall	Tan	0.00±0.00	Neg	N\A
189	Mop Closet	Ceiling	Intact	Drywall	White	0.01±0.00	Neg	N\A
190	Hallway	Lockers	Intact	Metal	Beige	0.00±0.00	Neg	51 units
191	Hallway	Wall	Intact	Cinderblock	Grey	0.00±0.00	Neg	N\A
192	Hallway	Wall	Intact	Wood	Dk.Grey	0.00±0.00	Neg	11Ft.
193	Hallway	Door Frame	Intact	Metal	Dk. Grey	0.00±0.00	Neg	N\A
194	Detectives	Wall	Intact	Cinderblock	Yellow	0.00±0.00	Neg	N\A
195	Detectives	Door Frame	Intact	Metal	Yellow	0.00±0.00	Neg	N\A
196	Detectives	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
197	Room 132	Wall	Intact	V. Dry	Choc.	0.00±0.00	Neg	N\A
198	Room 132	Wall	Intact	V. Dry	Brown	0.00±0.00	Neg	N\A
199	Room 132	Wall	Intact	Cinderblock	Yellow	0.00±0.00	Neg	N\A
200	Lab Hall	Wall	Intact	Drywall	Tan	0.00±0.00	Neg	N\A
201	Lab Hall	Wall	Intact	Drywall	Brown	0.00±0.00	Neg	N\A
202	Lab Hall	Door Frame	Intact	Metal	Tan	0.00±0.00	Neg	N\A
203	Photo Lab	Wallpanel	Intact	Wood	Brown	0.00±0.00	Neg	N\A
204	Photo Lab	Ceiling	Intact	Drywall	White	0.00±0.00	Neg	N\A
205	Photo Lab	Access Ceiling	Intact	Metal	White	0.00±0.00	Neg	N\A
206	Lab	Wall	Intact	Cinderblock	Pink	0.00±0.00	Neg	N\A
207	Lab	Cabinet	Intact	Metal	Brown	0.00±0.00	Neg	N\A
208	Hallway	Cabinet	Intact	Metal	Brown	0.00±0.00	Neg	N\A
209	Clerks	Wall	Intact	V. Dry	Pink	0.00±0.00	Neg	N\A
210	Motor Pool Div.	Wall	Intact	Cinderblock	Mauve	0.00±0.00	Neg	N\A
211	Motor Pool Div.	Wall	Intact	Drywall	Tan	0.00±0.00	Neg	N\A
212	Motor Pool Div.	Cabinet	Intact	Metal	Grey	0.00±0.00	Neg	N\A
213	Motor Pool Div.	Cabinet	Intact	Metal	Brown	0.00±0.00	Neg	N\A

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SAMPLE	LOCATION	COMPONENT	CONDITION	SUBSTRATE	COLOR	RESULTS	POS/NEG	QUANTITY
214	Boiler	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
215	Boiler	Door	Intact	Metal	Tan	0.00±0.00	Neg	N\A
216	Boiler	Door Frame	Intact	Metal	Tan	0.00±0.00	Neg	N\A
217	Boiler	Boiler	Intact	Metal	Grey	0.00±0.00	Neg	N\A
218	Elec. Room	Fire Panel	Intact	Metal	Tan	0.00±0.00	Neg	N\A
219	Loading Dock	Ladder	Intact	Metal	Tan	0.00±0.00	Neg	N\A
220	Loading Dock	Ceiling	Intact	Metal	Tan	0.00±0.00	Neg	N\A
221	Loading Dock	Trusswork	Intact	Metal	Tan	0.00±0.00	Neg	N\A
222	Exterior Storage	Body	Intact	Metal	Off White	0.00±0.00	Neg	N\A
223	Exterior Storage	Column	Intact	Metal	Off White	0.01±0.00	Neg	N\A
224	Diesel Tank	Tank	Intact	Metal	Yellow	0.00±0.00	Neg	N\A
225	Bollards	Bollards	Intact	Metal	Yellow	0.00±0.00	Neg	N\A
226	Generator	Generator	Intact	Metal	Orange	0.00±0.00	Neg	N\A
227	Pad Mounted Trans.	Pad Mounted Trans.	Intact	Metal	Green	0.00±0.00	Neg	N\A
228	Power Box	Power Box	Intact	Metal	Red	0.00±0.00	Neg	N\A
229	Kitchen	Wall	Intact	Cinderblock	Green	0.00±0.00	Neg	N\A
230	Kitchen	Wall	Intact	Cinderblock	White	0.00±0.00	Neg	N\A
231	Kitchen	Power Panel	Intact	Metal	White	0.00±0.00	Neg	3 units
232	Laundry	Wall	Intact	Cinderblock	Salmon	0.00±0.00	Neg	N\A
233	Kitchen Hall	Wall	Intact	Cinderblock	Blue	0.00±0.00	Neg	N\A
234	Jail 1 Exterior Rec.	Door	Intact	Metal	Red	0.00±0.00	Neg	N\A
235	Jail 1 Door Control Box	Control Box	Intact	Metal	Dk. Grey	0.00±0.00	Neg	N\A
236	Jail 1 Desk	Counter	Intact	Vinyl	Beige	0.00±0.00	Neg	N\A
237	Jail K Module	Wall	Intact	Cinderblock	Yellow	0.00±0.00	Neg	N\A
238	Jail M Module	Wall	Intact	Cinderblock	Blue	0.00±0.00	Neg	N\A
239	Evidence Room	Wall	Intact	Cinderblock	Tan	0.00±0.00	Neg	N\A
240	Evidence Room	Garage Frame	Intact	Metal	Tan	0.00±0.00	Neg	N\A
241	Evidence Room	Lintel	Intact	Metal	Tan	0.00±0.00	Neg	N\A
242	Evidence Room	Panel	Intact	Metal	Tan	0.00±0.00	Neg	N\A
243	Loading Dock Area	Ductwork	Intact	Metal	Beige	0.04±0.02	Neg	N\A
244	Loading Dock Area	Ceiling Truss	Intact	Metal	Beige	0.06±0.03	Neg	N\A
245	Loading Dock Area	Ceiling Deck	Intact	Metal	Beige	0.03±0.01	Neg	N\A
Cal.	Calibrate	Coin	Intact	Metal	Silver	Pass	N\A	N\A
Cal.	Calibrate	SRM2570	Intact	Plastic	White	0.00±0.00	N\A	N\A
Cal.	Calibrate	SRM2573	Intact	Plastic	Red	1.02±0,01	N\A	N\A

APPENDIX D

XRF CERTIFICATE OF CALIBRATION

Olympus Innov-X
100 Sylvan Rd; 100 Trade Center; Suite 500
Woburn, MA 01801 USA
Tel: 781-938-5005 Fax: 781-938-0128
www.innovx.com info@innovx.com

Certificate of Calibration

Certification No: 11102012-1

Date Calibrated: November 11, 2012

Instrument No: 501736

Type: DS-4000

This instrument was calibrated according to Innov-X Systems in-house calibration procedure. The calibration was verified using NIST Certified Reference Materials produced by National Institute of Standards and Technology (NIST).

This instrument conforms to Olympus / Innov-X Systems Quality Assurance standards.

Test Technician

The Netherlands
(P) +31 (0) 7362 72590
(F) +31 (0) 7362 72599

Hong Kong
(P) +852 2 515 0999
(F) +852 2 505 6129

Australia
(P) +61 2 9577 9500
(F) +61 2 9519 1850

APPENDIX E

MICROBIOLOGICAL LABORATORY ANALYSIS REPORTS

EMSL Analytical, Inc.

3029 S. Jefferson Saint Louis, MO 63118
Tel/Fax: (314) 577-0150 / (314) 776-3313
http://www.EMSL.com / saintlouislab@emsl.com

EMSL Order: 391900627
Customer ID: SEI50
Customer PO:
Project ID:

Attn: Robert Hill II
Sitex Environmental, Inc.
1525 South Broadway Avenue
Saint Louis, MO 63104

Phone: (314) 421-0600
Fax: (314) 421-0234
Collected: 01/22/2019
Received: 01/23/2019
Analyzed: 01/30/2019

Project: Franklin County Sheriffs Dept.

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	391900627-0001			391900627-0002			391900627-0003		
Client Sample ID:	AIR01			AIR02			AIR03		
Volume (L):	150			150			150		
Sample Location	Men's Locker Room			Evidence Room			Lobby (Public)		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	2*	10*	12.5	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	1*	7*	6.5
Aspergillus/Penicillium	3	70	87.5	-	-	-	4	90	84.1
Basidiospores	-	-	-	-	-	-	-	-	-
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	1	20	100	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	2*	10*	9.3
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Sterigmatobotrys	-	-	-	-	-	-	-	-	-
Total Fungi	**5**	**80**	**100**	**1**	**20**	**100**	**7**	**107**	**100**
Hyphal Fragment	1*	7*	-	2*	10*	-	1	20	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	-	-	-	-	-	-	-	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

No discernable field blank was submitted with this group of samples.

Amber Stegmann

Amber Stegmann, Micro Supervisor
or other approved signatory

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "*" Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO A2LA Accredited Environmental Testing Cert #2845.10

Initial report from: 01/30/2019 16:34:02

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

EMSL Analytical, Inc.

3029 S. Jefferson Saint Louis, MO 63118
Tel/Fax: (314) 577-0150 / (314) 776-3313
http://www.EMSL.com / saintlouislab@emsl.com

EMSL Order: 391900627
Customer ID: SEI50
Customer PO:
Project ID:

Attn: Robert Hill II
Sitex Environmental, Inc.
1525 South Broadway Avenue
Saint Louis, MO 63104

Phone: (314) 421-0600
Fax: (314) 421-0234
Collected: 01/22/2019
Received: 01/23/2019
Analyzed: 01/30/2019

Project: Franklin County Sheriffs Dept.

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	391900627-0004			391900627-0005			391900627-0006		
Client Sample ID:	AIR04			AIR05			AIR06		
Volume (L):	150			150			150		
Sample Location	Booking (Jail)			Kitchen (Jail)			Laundry (Jail)		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	-	-	-
Aspergillus/Penicillium	6	100	100	-	-	-	1	20	33.3
Basidiospores	-	-	-	1	20	50	1	20	33.3
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	-	-	1	20	33.3
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
Sterigmatobotrys	-	-	-	1	20	50	-	-	-
Total Fungi	**6**	**100**	**100**	**2**	**40**	**100**	**3**	**60**	**100**
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	22	-	-	22	-	-	22	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	-	-	-	-	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

No discernable field blank was submitted with this group of samples.

Amber Stegmann

Amber Stegmann, Micro Supervisor
or other approved signatory

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "*" Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO A2LA Accredited Environmental Testing Cert #2845.10

Initial report from: 01/30/2019 16:34:02

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

EMSL Analytical, Inc.

3029 S. Jefferson Saint Louis, MO 63118
Tel/Fax: (314) 577-0150 / (314) 776-3313
http://www.EMSL.com / saintlouislab@emsl.com

EMSL Order: 391900627
Customer ID: SEI50
Customer PO:
Project ID:

Attn: Robert Hill II
Sitex Environmental, Inc.
1525 South Broadway Avenue
Saint Louis, MO 63104

Phone: (314) 421-0600
Fax: (314) 421-0234
Collected: 01/22/2019
Received: 01/23/2019
Analyzed: 01/30/2019

Project: Franklin County Sheriffs Dept.

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)

Lab Sample Number:	391900627-0007			391900627-0008		
Client Sample ID:	AIR07			AIR08		
Volume (L):	150			150		
Sample Location	Outside Control Center (Jail)			West Main Entrance		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria (Ulocladium)	-	-	-	-	-	-
Ascospores	-	-	-	8	200	20.6
Aspergillus/Penicillium	-	-	-	11	240	24.7
Basidiospores	2	40	50	12	260	26.8
Bipolaris++	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-
Cladosporium	2	40	50	7	200	20.6
Curvularia	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-
Rust	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	3	70	7.2
Unidentifiable Spores	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-
Sterigmatobotrys	-	-	-	-	-	-
Total Fungi	**4**	**80**	**100**	**41**	**970**	**100**
Hyphal Fragment	-	-	-	1*	7*	-
Insect Fragment	-	-	-	-	-	-
Pollen	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	22	-	-	22	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	1	-
Fibrous Particulate (1-4)	-	-	-	-	-	-
Background (1-5)	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

No discernable field blank was submitted with this group of samples.

Amber Stegmann

Amber Stegmann, Micro Supervisor
or other approved signatory

Initial report from: 01/30/2019 16:34:02

For information on the fungi listed in this report, please visit the Resources section at www.emsl.com

OrderID: 391900627

Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*): 391900627

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX:(856) 786-0262

Company Name: SITEX ENVIRONMENTAL		**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments	
Street: 1525 S. Broadway		*Third Party Billing requires written authorization from third party.*	
City: SAINT LOUIS	**State/Province:** Missouri	**Zip/Postal Code:** 63104	**Country:** USA
Report To (Name): Robert H. Hill II		**Telephone #:** 314 421 0600	
Email Address: bobh@sitexenvironmental.com		**Fax #:** 314 421 0423	**Purchase Order:** N/A
Project Name/Number: Franklin County Sheriff's Dept		**Please Provide Results:** ☐ Fax ☒ Email	
U.S. State Samples Taken:	**Project Zip Code:**	**Connecticut Samples:** ☐ Commercial ☐ Residential	

Sterile, Sodium Thiosulfate Preserved Bottle Used: ☐ **Biocide Used in Source (specify):** ☐

Public Water Supply Samples: ☐ **Note: All results may automatically be reported to DOH if required by state.**

Turnaround Time (TAT) Options - Please Check

☐ 3 Hour	☐ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☒ 1 Week	☐ 2 Week

Microbiology Test Codes

M001 Air-O-Cell | **M174** MoldSnap
M030 Micro 5 | **M032** Allergenco-D

M041 Fungal Direct Examination
M169 Pollen ID & Enumeration
M280 Dust Characterization Level-1
M281 Dust Characterization Level-2
M005 Viable Fungi- Air Samples (Genus ID & Count)
M006 Viable Fungi- Air Samples (Includes *Penicillium, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count)
M007 Culturable fungi - Surface Samples (Genus ID & Count)
M008 Culturable fungi - Surface Samples (Includes *Penicillium, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count)
M009 Bacteria Culture Gram Stain & Count
M010 Bacteria Count & ID - 3 Most Prominent
M011 Bacteria Count & ID - 5 Most Prominent

M012 *Pseudomonas aeruginosa* (P/A***)
M024 *Pseudomonas aeruginosa* (MFT*)
M015 Heterotrophic Plate Count
M017 Total Coliform & *E. coli* (Colilert P/A***)
M018 Total Coliform & *E. coli* (MFT*)
M114 Total Coliform & *E. coli* Enumeration (Colilert MPN**)
M019 Fecal Coliform (MFT*)
M020 Fecal *Streptococcus* (MFT*)
M029 *Enterococci* (MFT*)
M129 *Enterococci* (Enterolert P/A***)
M180 Real Time qPCR-ERMI 36 Panel
M025 Sewage Screen –Water (MFT*)

M115 Sewage Screen - Water (P/A***)
M116 Sewage Screen - Water (MPN**)
M117 Sewage Screen - Swab (P/A***)
M013 Sewage Screen - Swab (MFT*)
M133 *Methicillin-resistant Staph. aureus* (MRSA)
M031 Rapid-growing non-TB *Mycobacteria* Detection & Enumeration
M014 Endotoxin Analysis
M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)
Other See Analytical Price Guide
***Legionella* Analysis** Please use EMSL *Legionella* COC

*MFT= Membrane Filtration Technique
**MPN= Most Probable Number
***P/A= Presence/Absence

Name of Sampler: Robert H. Hill II **Signature of Sampler:** Robert H. Hill II

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
Example A1	Kitchen Sink/Tap	Water	☒ P ☐ NP	M017	100 mL	9/1/13 4:00 PM	
AIR 01	Men's Locker Room	AIR	☐ P ☐ NP	M001	150L	1/22/19:817	
AIR 02	Evidence Room	AIR	☐ P ☐ NP	M001	150L	1/22/19:839	
AIR 03	Lobby (Public)	AIR	☐ P ☐ NP	M001	150L	1/22/19:856	
AIR 04	Booking (JAIL)	AIR	☐ P ☐ NP	M001	150L	1/22/19:909	
AIR 05	Kitchen (JAIL)	AIR	☐ P ☐ NP	M001	150L	1/22/19:922	

Client Sample # (s): AIR01 - AIR08 **Total # of Samples:** 8 **Samples Received Chilled?** Yes / No (Lab Use Only)

Relinquished (Client): Robert H. Hill II **Date:** 1/23/2019 **Time:** 1630 pm

Received (Lab): [signature] **Date:** 1-23-19 **Time:** 4:25 pm

Comments/Special Instructions:

Controlled Document – COC-34 Micro R8 11/14/2017

OrderID: 391900627

Microbiology Chain of Custody

EMSL Order Number *(Lab Use Only)*: 391900627

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX:(856) 786-0262

Additional pages of the chain of custody are only necessary if needed for additional sample information.

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
AIR06	Laundry (JAIL)	AIR	☐P ☐NP	M001	150L	1/22/19:933	
AIR07	Outside Control Center (JAIL)	AIR	☐P ☐NP	M001	150L	1/22/19:948	
AIR08	West Main Entrance	AIR	☐P ☐NP	M001	150L	1/22/19:1000	
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
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			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				

Comments/Special Instructions:

Page 2 of 2

EMSL Analytical, Inc.
3029 S. Jefferson Saint Louis, MO 63118
Phone/Fax: (314) 577-0150 / (314) 776-3313
http://www.EMSL.com / saintlouislab@emsl.com

Order ID: 391900738
Customer ID: SEI50
Customer PO:
Project ID:

Attn: Robert Hill II
Sitex Environmental, Inc.
1525 South Broadway Avenue
Saint Louis, MO 63104

Phone: (314) 421-0600
Fax: (314) 421-0234
Collected:
Received: 01/28/2019
Analyzed: 01/29/2019

Proj: Franklin County Sheriff Dept.

Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Tape Samples (EMSL Method MICRO-SOP-200)

Lab Sample Number:	391900738-0001				
Client Sample ID:	FCSD-MW-01				
Sample Location:	Module H Shower				
Spore Types	Category	-	-	-	-
Alternaria (Ulocladium)	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-
Basidiospores	-	-	-	-	-
Bipolaris++	-	-	-	-	-
Chaetomium	-	-	-	-	-
Cladosporium	High	-	-	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	-	-	-	-	-
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Hyphal Fragment	High	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	-	-	-	-	-

Category: Count/per area analyzed - Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

- Denotes Not Detected.
++ = Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.
* = Sample contains fruiting structures and/or hyphae associated with the spores.

No discernable field blank was submitted with this group of samples.

Amber Stegmann

Amber Stegmann, Micro Supervisor
or Other Approved Signatory

Initial report from: 01/29/2019 12:00:15

For Information on the fungi listed in this report please visit the Resources section at www.emsl.com

OrderID: 391900738

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*): 391900738

EMSL ANALYTICAL, INC.
3029 S JEFFERSON AVE
ST. LOUIS, MO 63118
PHONE: (314) 577-0150
FAX:(314) 776-3313

Company Name: SITEX Environmental		EMSL-Bill to: ☐ Same ☐ Different If Bill to is Different note instructions in Comments	
Street: 1525 South Broadway		*Third Party Billing requires written authorization from third party.*	
City: St. Louis	State/Province: MO	Zip/Postal Code: 63104	Country: USA
Report To (Name): Robert H. Hill II		Telephone #: 314 421 0600	
Email Address: bobh@sitexenvironmental.com		Fax #: 314 421 0423	Purchase Order: —
Project Name/Number: Franklin County Sheriff Dept.		Please Provide Results: ☐ Fax ☒ Email	
U.S. State Samples Taken: Missouri	Project Zip Code:	Connecticut Samples: ☐ Commercial ☐ Residential	

Sterile, Sodium Thiosulfate Preserved Bottle Used: ☐ Biocide Used in Source (specify): ☐

Public Water Supply Samples: ☐ Note: All results may automatically be reported to DOH if required by state.

Turnaround Time (TAT) Options - Please Check

☐ 3 Hour	☒ 6 Hour	☐ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

Microbiology Test Codes

M001 Air-O-Cell	M174 MoldSnap
M030 Micro 5	M032 Allergenco-D

M041 Fungal Direct Examination
M169 Pollen ID & Enumeration
M280 Dust Characterization Level-1
M281 Dust Characterization Level-2
M005 Viable Fungi- Air Samples (Genus ID & Count)
M006 Viable Fungi- Air Samples (Includes *Penicillium, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count)
M007 Culturable fungi - Surface Samples (Genus ID & Count)
M008 Culturable fungi - Surface Samples (Includes *Penicillium, Aspergillus, Cladosporium, Stachybotrys* Species ID & Count)
M009 Bacteria Culture Gram Stain & Count
M010 Bacteria Count & ID - 3 Most Prominent
M011 Bacteria Count & ID - 5 Most Prominent

M012 *Pseudomonas aeruginosa* (P/A***)
M024 *Pseudomonas aeruginosa* (MFT*)
M015 Heterotrophic Plate Count
M017 Total Coliform & *E. coli* (Colilert P/A***)
M018 Total Coliform & *E. coli* (MFT*)
M114 Total Coliform & *E. coli* Enumeration (Colilert MPN**)
M019 Fecal Coliform (MFT*)
M020 Fecal *Streptococcus* (MFT*)
M029 *Enterococci* (MFT*)
M129 *Enterococci* (Enterolert P/A***)
M180 Real Time qPCR-ERMI 36 Panel
M025 Sewage Screen –Water (MFT*)

M115 Sewage Screen - Water (P/A***)
M116 Sewage Screen - Water (MPN**)
M117 Sewage Screen - Swab (P/A***)
M013 Sewage Screen - Swab (MFT*)
M133 *Methicillin-resistant Staph. aureus* (MRSA)
M031 Rapid-growing non-TB *Mycobacteria* Detection & Enumeration
M014 Endotoxin Analysis
M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)
Other See Analytical Price Guide
Legionella Analysis Please use EMSL *Legionella* COC

*MFT= Membrane Filtration Technique
**MPN= Most Probable Number
***P/A= Presence/Absence

Name of Sampler: Robert H Hill II — Signature of Sampler: Robert H Hill II

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
Example A1	Kitchen Sink/Tap	Water	☒ P ☐ NP	M017	100 mL	9/1/13 4:00 PM	
FCSD-MW-01	Module H Shower	TAPE	☐ P ☐ NP	M041	—	9/28/19 1201	
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				
			☐ P ☐ NP				

Client Sample # (s): MW01 - MW01 — Total # of Samples: 1 — Samples Received Chilled? Yes / No (Lab Use Only)

Relinquished (Client): Robert H Hill II — Date: 09/28/19 — Time: 350 pm

Received (Lab): — Date: 9/28/19 — Time: 4pm

Comments/Special Instructions: 1/28/19

Controlled Document – COC-34 Micro R8 11/14/2017

EMSL Analytical, Inc.
3029 S. Jefferson Saint Louis, MO 63118
Phone/Fax: (314) 577-0150 / (314) 776-3313
http://www.EMSL.com / saintlouislab@emsl.com

Order ID: 391900973
Customer ID: SEI50
Customer PO:
Project ID:

Attn: Robert Hill II
Sitex Environmental, Inc.
1525 South Broadway Avenue
Saint Louis, MO 63104

Phone: (314) 421-0600
Fax: (314) 421-0234
Collected: 02/03/2019
Received: 02/04/2019
Analyzed: 02/05/2019

Proj: Franklin County Jail

Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Tape Samples (EMSL Method MICRO-SOP-200)

Lab Sample Number:	391900973-0001	391900973-0002			
Client Sample ID:	Tape 01	Tape 02			
Sample Location:	Module I - Shower	Module J - Shower			
Spore Types	Category	Category	-	-	-
Alternaria (Ulocladium)	-	-	-	-	-
Ascospores	-	-	-	-	-
Aspergillus/Penicillium	-	-	-	-	-
Basidiospores	-	-	-	-	-
Bipolaris++	-	-	-	-	-
Chaetomium	-	-	-	-	-
Cladosporium	-	-	-	-	-
Curvularia	-	-	-	-	-
Epicoccum	-	-	-	-	-
Fusarium	-	-	-	-	-
Ganoderma	-	-	-	-	-
Myxomycetes++	-	-	-	-	-
Pithomyces++	-	-	-	-	-
Rust	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-
Zygomycetes	-	-	-	-	-
Hyphal Fragment	-	-	-	-	-
Insect Fragment	-	-	-	-	-
Pollen	-	-	-	-	-

Sample Comment: 391900973-0001 None Detected
Sample Comment: 391900973-0002 None Detected

Category: Count/per area analyzed - Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

- Denotes Not Detected.
++ = Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.
* = Sample contains fruiting structures and/or hyphae associated with the spores.

No discernable field blank was submitted with this group of samples.

Amber Stegmann

Amber Stegmann, Micro Supervisor
or Other Approved Signatory

Samples analyzed by EMSL Analytical, Inc. Saint Louis, MO AIHA-LAP, LLC--EMLAP Accredited #102636

Initial report from: 02/05/2019 14:54:01

For Information on the fungi listed in this report please visit the Resources section at www.emsl.com

OrderID: 391900973

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*): 391900973

EMSL ANALYTICAL, INC.
3029 S JEFFERSON AVE
ST. LOUIS, MO 63118
PHONE: (314) 577-0150
FAX:(314) 776-3313

Company Name: SITEX Environmental	EMSL-Bill to: ☐ Same ☐ Different If Bill to is Different note instructions in Comments *Third Party Billing requires written authorization from third party.*
Street: 1525 South Broadway	
City: St Louis / State/Province: MO / Zip/Postal Code: 63104 / Country: USA	
Report To (Name): Robert H. Hill II	Telephone #: 3144210600
Email Address: bobh@sitexenvironmental.com	Fax #: 3144210423 / Purchase Order: N/A
Project Name/Number: Franklin County Jail	Please Provide Results: ☐ Fax ☒ Email
U.S. State Samples Taken: / Project Zip Code:	Connecticut Samples: ☐ Commercial ☐ Residential
Sterile, Sodium Thiosulfate Preserved Bottle Used: ☐ Biocide Used in Source (specify): ☐	
Public Water Supply Samples: ☐ Note: All results may automatically be reported to DOH if required by state.	

Turnaround Time (TAT) Options - Please Check

☐ 3 Hour	☐ 6 Hour	☒ 24 Hour	☐ 48 Hour	☐ 72 Hour	☐ 96 Hour	☐ 1 Week	☐ 2 Week

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M012 *Pseudomonas aeruginosa* (P/A***)
M024 *Pseudomonas aeruginosa* (MFT*)
M015 Heterotrophic Plate Count
M017 Total Coliform & *E. coli* (Colilert P/A***)
M018 Total Coliform & *E. coli* (MFT*)
M114 Total Coliform & *E. coli* Enumeration (Colilert MPN**)
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M129 *Enterococci* (Enterolert P/A***)
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M025 Sewage Screen –Water (MFT*)
M115 Sewage Screen - Water (P/A***)
M116 Sewage Screen - Water (MPN**)
M117 Sewage Screen - Swab (P/A***)
M013 Sewage Screen - Swab (MFT*)
M133 *Methicillin-resistant Staph. aureus* (MRSA)
M031 Rapid-growing non-TB *Mycobacteria* Detection & Enumeration
M014 Endotoxin Analysis
M044 Group Allergen (Cat, Dog, Cockroach, Dust Mite)
Other See Analytical Price Guide
***Legionella* Analysis** Please use EMSL *Legionella* COC

*MFT= Membrane Filtration Technique
**MPN= Most Probable Number
***P/A= Presence/Absence

Name of Sampler: Robert H. Hill II / Signature of Sampler: Robert H. Hill II

Sample #	Sample Location/Description	Sample Type	Potable/ NonPotable (Only for Waters)	Test Code	Volume/ Area	Date/Time Collected	Temperature (°C) (Lab Use Only)
Example A1	Kitchen Sink/Tap	Water	☒P ☐NP	M017	100 mL	9/1/13 4:00 PM	
TAPE 01	Module I-Shower	TAPE	☐P ☐NP	M041	—	2/3/19	
TAPE 02	Module J-Shower	TAPE	☐P ☐NP	M041	—	2/3/19	
			☐P ☐NP				
			☐P ☐NP				
			☐P ☐NP				

Client Sample # (s): TAPE01 - TAPE02 / Total # of Samples: 2 / Samples Received Chilled? Yes / No (Lab Use Only)

Relinquished (Client): Robert H Hill II / Date: 2/3/2019 / Time: 3:40 pm

Received (Lab): / Date: 2/4/19 / Time: 345p

Comments/Special Instructions:

Controlled Document – COC-34 Micro R8 11/14/2017

APPENDIX F

HAZARDOUS MATERIAL INVENTORY

Hazardous Materials Inventory

Listing of household hazardous materials found on the premises of Franklin County Sheriff's Department. Hazardous and universal items are listed by location, description, product name and quantity.

JAIL

Fluorescent Lights (4-foot tubes) = 536 each
Fluorescent Light ("U" Shaped) = 30 each
Ballast = 285 each
Refrigerator = 1 each
Walk-In Freezers (Kitchen) = 3 each
Smoke Alarms = 66 each
Exit Signs = 4 each
Fire Extinguishers = 6 each
Betco Disinfectant = 4, 32-ounce containers
Thermostats = 11 each
Door Closures (solenoid) = 51 each
Dial Soap = 6, 1-gallon containers
Bleach Alternative = 6, 1-gallon containers

(Store Room)

Vertex Bleach = 5, 1-gallon containers
Cyamic Pipeline = 8, 1-gallon containers
Betco Push = 4, 1-gallon containers
Graffitti Spray Paint = 12, 15-ounce containers
Febreze Air = 6, 16-ounce containers
Toilet Bowl Cleaner = 16, 24-ounce containers
Car Wash and Wax = 5, 1-gallon containers
Eliminate Descale = 4, 1-gallon containers
Sewer Cleaner = 4, 5-gallon containers
Corrosive = 2, 5-gallon containers
LTR = 1, 5-gallon containers
Sanitizer = 1, 5-gallon containers
Betco King Cleaner = 10. 32-ounce containers
Betco Deep Blue Glass Cleaner = 42, 32-ounce containers
Betco Best Bet Cleaner = 9, 32-ounce containers
Cyamic Blue Detergent = 3, 1-gallon containers

Hazardous Materials Inventory

JAIL (CONTINUED)

Pure Clean Hand Soap = 5, 1-gallon containers
Cyanic Far Fare Cleaner = 7, 19-ounce containers
Meyer LD 64 = 3, 1-gallon containers
Meyer TNT Tuben Tile = 3, 1-gallon containers
Clorox Wipes = 5, 11-pound containers
Perfect Sanitizer = 9, 32-ounce containers
Clorox Disinfectant = 18, 32-ounce containers
Champion Oven Cleaner = 9, 1-pound containers
Freezer Cleaner = 4, 1-gallon containers
Tide Detergent = 2, 31-pound containers
Pivot Detergent = 2, 5-gallon containers
Corrosive = 2, 5-gallon containers
LTR = 1, 5-gallon container
Fast Break = 2, 5-gallon containers
Power Forward = 2, 5-gallon containers
Swing Guard Softener = 1, 5-gallon containers

Boiler Room

Fluorescent Lights (4-foot tubes) = 14 each
Ballast = 7 each
Exit Signs = 2 each
Fire Extinguishers = 2 each
Challenger and GE Pad-mounted transformers = 2 each
Thermostats = 2 each
Kitty Litter = 2 bags
Ultra-Release = 1, 5-gallon container
Chempro Lime Cleaner = 1, 1-gallon container
Techno Descale = 2, 1-gallon container
Meyer LPC = 2, 32-ounce containers
Muriatic Acid = 1, 1-gallon container
Valspar Paint = 1, 3- gallon container
Rock Salt = 1 pallet (25 bags)
Fluorescent Lights (4-foot tubes) = 50 each
Ballast = 25 each
Fire Alarm (emergency lights) = 2 each

Hazardous Materials Inventory

Emergency Services

Fluorescent Lights (4-foot tubes) = 50 each
Ballast = 25 each
Fire Alarm (emergency lights) = 2 each
Fire Extinguishers = 3 each

Emergency Services (Continued)

Smoke Alarms = 1 each
Thermostats = 5 each
Backup 911 (room 170) = 3, 12v batteries
C&D Hallway = 3, 12v batteries

Administration

Florescent Lights (4-foot tubes) = 322 each
Fluorescent Light ("U" shaped) = 32 each
Ballast = 180 each
Exit Signs = 9 each
Fire Alarms (emergency light) = 1 each
Fire Extinguisher = 9 each
Smoke Alarms = 13 each
Thermostats = 31 each
Refrigerators = 2 each
Mini-Refrigerators = 3 each
Chest Freezer = 1 each

APPENDIX G

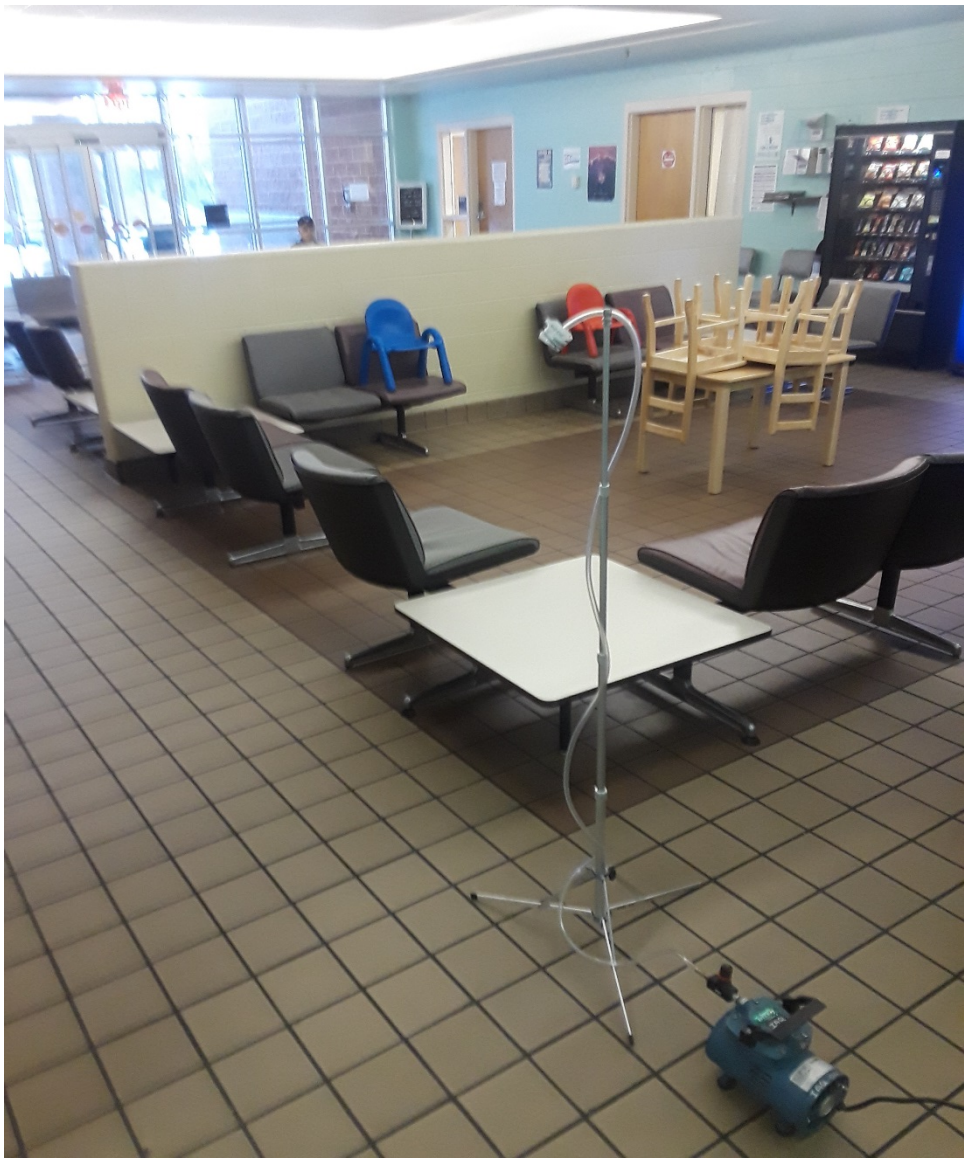
PHOTOGRAPH LOG

Photograph 1

Mold air sample (AIR01) collected in Men's Locker Room administration area.

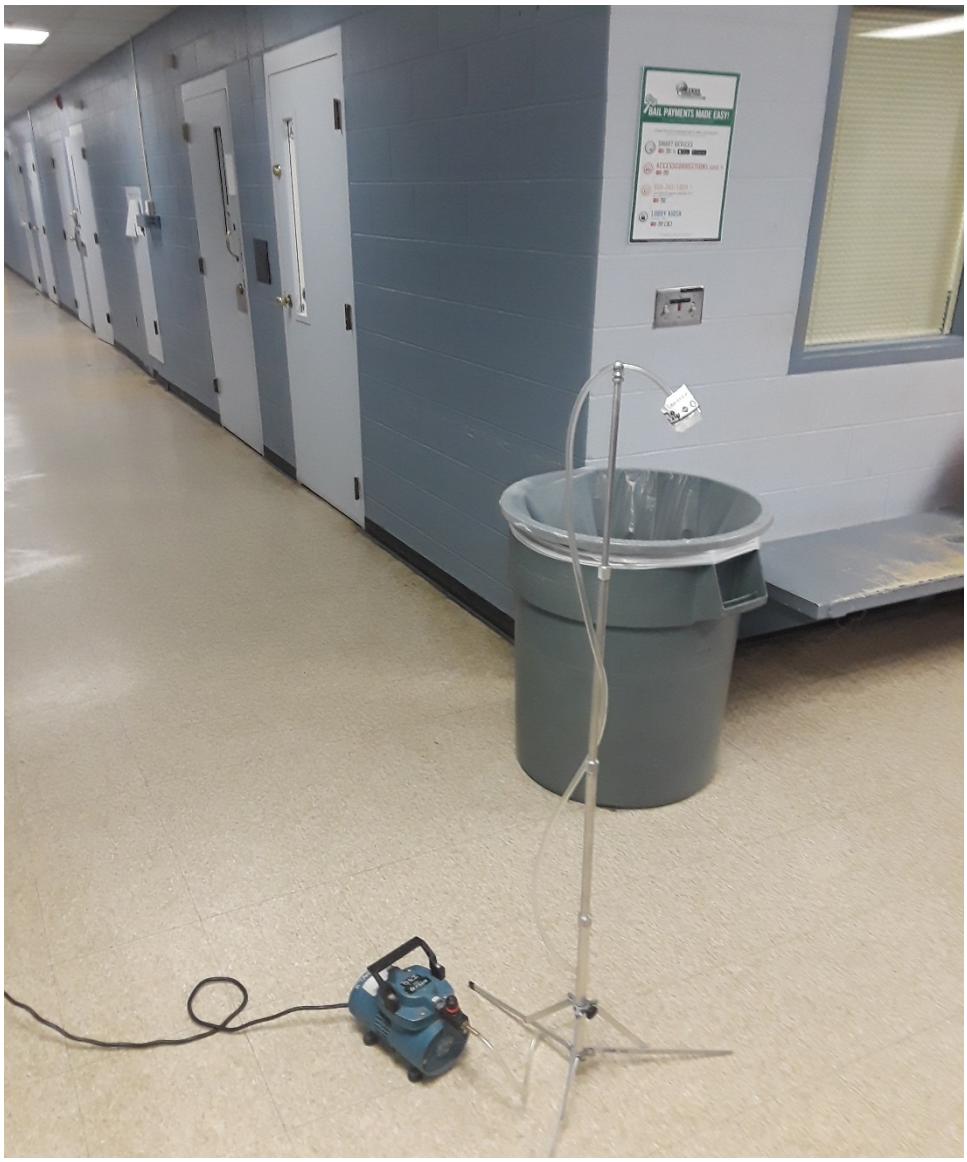
Photograph 2

Mold air sample (AIR02) collected in Evidence Room administration area.



Photograph 3

Mold air sample (AIR03) collected in Lobby at main entrance.



Photograph 4

Mold air sample (AIR04) collected in Booking located in the jail area.

Photograph 5

Mold air sample (AIR05) collected in the Kitchen located in the jail area.

Photograph 6

Mold air sample (AIR06) collected in the Laundry Room located in the jail area.

Photograph 7

Mold air sample (AIR08) collected outside building west main entrance.

Photograph 8

Non-asbestos fiberglass pipe insulation and elbows n jail kitchen area.

Photograph 9

Non-asbestos fiberglass pipe insulation and elbows in jail water closet.

Photograph 10

Non-asbestos fiberglass pipe insulation and elbows above ceiling in jail hallway.

Photograph 11

Non-asbestos fiberglass pipe insulation and elbows in jail above hallway.

Photograph 12

Lead-Based Paint (LBP) yellow lifting plastron and frame located in loading dock area (Note: Next to Boiler Room).

APPENDIX H

INDIVIDUAL CERTIFICATIONS

CERTIFICATION NUMBER:

7118030218MOIR2164

THIS CERTIFIES

Robert H Hill II

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector

APPROVED: **03/07/2018**

EXPIRES: **03/07/2019**

TRAINING DATE: **03/02/2018**

Director of Air Pollution Control Program

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Robert H. Hill II

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date:	**5/17/2017**
Expiration Date:	**5/17/2019**
License Number:	**010517-200133036**

Randall W. Williams, MD, FACOG
Director
Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

TSI CERTIFICATE OF ATTENDANCE

This Certificate is Issued to:

Robert H. Hill II

of

PSH, Inc.

Company/Organization

In Recognition of Your Participation in a 4-Hour Seminar on
Indoor Air Quality with hands-on training in making Indoor Air Quality measurements

ABIH has awarded this course 0.5 CM points
ABIH approval #708

Peter A Nelson

Seminar Leader - Peter A. Nelson

Regional Sales Manager

Title

Seminar Date: December 2, 1996

Seminar Location: St. Louis, Missouri

TSI®

TSI Incorporated, St. Paul, Minnesota

LITHO IN U.S.A.

Certificate of Completion

THIS IS TO CERTIFY THAT

Bob Hill

HAS SUCCESSFULLY COMPLETED A ONE-DAY SEMINAR ON

Mold, Allergens, Sampling, and Data Interpretation

We will ensure that IAQ industry professionals succeed o[illegible]st for knowledge.

Dr. Payam Fallah
Senior Mycologist/Laboratory Manager
Environmental Microbiology Laboratory, Inc.

Class Date: September 13th, 2005
8 Hour Class

Dr. Harriet Burge
Director of Aerobiology
Environmental Microbiology Laboratory, Inc.

Eligible CEC for:
ABIH (code 04-3404): 1 CM point
AIAQC: 1 credit
IAQA: 7.5 CEU's
IESO: 7 CEU's

Institute of Hazardous Materials Management

Certifies that

Robert H. Hill II

has successfully met all requirements of education,
experience and examination, and is hereby designated a

Certified Hazardous Materials Manager

Master Level

January 2007	14171	December 31, 2013	John H Frick
Certified	Number	Expiration Date	Executive Director

So long as this credential is renewed according to schedule and is not otherwise revoked.