



ASBESTOS AIR, LEAD AIR, AND LEAD DUST INVESTIGATION REPORT
GOODFELLOW FEDERAL CENTER
4300 Goodfellow Boulevard
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Prepared for:



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1.0 INTRODUCTION

1.1 Site Location and Description

The Goodfellow Federal Center is a former Army Ammunition Production Facility previously operated by the U.S. Army. The ownership and operation of the facility was transferred from the Army to the United States General Services Administration (GSA) on July 1, 1966. After the transfer was complete, GSA began the process of renovating the complex into a suburban office park. Currently, the facility comprises 23 buildings situated on 62.5 acres located east of Goodfellow Boulevard and southwest of Interstate 70, in suburban Saint Louis, Missouri.

1.2 General Scope of Services

OCCU-TEC, Inc. (OCCU-TEC) was contracted by GSA to conduct indoor air sampling and dust sampling throughout the facility in response to concerns regarding the possible spread of contamination previously identified in dirt crawlspaces on the facility by various consultants and documented at various reports prepared for the facility and submitted to GSA. These activities were completed under the OCCU-TEC GSA blanket purchase agreement GS-06-P-15-GX-A-7005, task order GS-P-06-16-GZ-7025.

Sampling activities were completed from February 10 through March 2, 2016 within the following buildings: 102E, 103, 103D, 103E, 103F, 104, 104E, 104F, 105, 105E, 105F, 105L, 106, 107, 110, 115 and 122B. All samples were collected in accordance with the methodologies detailed in the OCCU-TEC proposal and in accordance with the above stated task order. The proposed sampling scheme, numbers of samples, sample distribution and general methodology was developed by GSA. Sample locations and samples collected from discretionary locations were determined by OCCU-TEC field personnel during sampling activities.

2.0 SAMPLING METHODOLOGY

2.1 Asbestos Air Sampling Methodology

Asbestos air samples were collected using 25 millimeter (mm) Transmission Electron Microscopy (TEM) cassettes with 0.45 micrometer (μm) mixed cellulose ester (MCE) filters using high-volume, electric, air sampling pumps in accordance with National Institute for Occupational Safety and Health (NIOSH) sampling methods. TEM refers to a method that uses an electron microscope to distinguish asbestos fibers from non-asbestos fibers. Samples duration and flow rates were determined using applicable methodology in an attempt to collect a minimum 1300 liter air sample without overloading the sample media. Air samples were submitted via FedEx under chain-of-custody to McCall and Spero Environmental, Inc. (McCall & Spero) in Louisville, Kentucky for independent analysis according to NIOSH Method 7402. McCall & Spero is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for “Airborne Asbestos Fiber Analysis” by TEM (NVLAP #101895-0).

2.2 Lead Air Sampling Methodology

Air sampling for lead was conducted in each building included in the investigation. The air samples for lead analysis were collected on 37 millimeter (mm) cassettes with 0.8 micrometer (μm) mixed cellulose ester (MCE) filters using powered air sampling pumps in accordance with National Institute for Occupational Safety and Health (NIOSH) sampling methods. Samples were collected in coordination with TEM air samples and were collected in a method sufficient to collect a minimum sample volume of 400 liters. Air samples were submitted under chain-of-custody to Schneider Laboratories (Schneider) for independent analysis of lead according to NIOSH method 7082. Schneider is accredited by the American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP) identification number 100527.

2.3 Lead Dust Sampling Methodology

Lead dust sampling was completed using two sampling methods. For surfaces where the base material was porous (carpet, wood, rough porous concrete etc.) OCCU-TEC utilized micro-vacuum sampling methodology. For smooth nonporous surfaces (I-beams, handrails, window sills, etc.) OCCU-TEC utilized lead dust wipe sampling methodology.

2.3.1 Micro-Vacuum Sampling

Lead Micro-vacuum samples were collected in accordance with ASTM standard D7144-05a (reapproved in 2011): Standard Practice for Collection of Surface Dust by Micro-vacuum Sampling for Subsequent Metals Determination. Samples were collected using an low flow sampling pump calibrated between 2 and 3 liters per min and 100 square centimeter (100 cm^2) sampling templates. Samples were collected on commercially purchased micro-vacuum sample cassettes with a 0.8 micron filter as prescribed by the method. Samples were collected for duration of approximately one minute. By sweeping a 100 square centimeter template in a orthogonal pattern. After collection, sample cassettes were collected and delivered to Schneider Laboratories under chain of custody for independent analysis. . Dust samples were submitted to Schneider Laboratories for lead according to Environmental Protection Agency (EPA) method SW846 350B/7420.

2.3.2 Lead Dust Wipe Sampling

Dust wipe sampling was conducted in accordance with ASTM Standard E1728-16: Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling Methods for Subsequent Lead Determination. ASTM Standard E1728-16 is consistent with the methodology described in the Housing and Urban Development Guidelines and 40 CFR 745.63. Dust wipe sampling for lead was conducted on horizontal surfaces in each building included in the investigation. The dust wipe samples were collected using dedicated Ghost Wipes dust wipe cloths. Each dust wipe cloth was pre-moistened and individually wrapped. The horizontal surfaces selected for sampling consisted of areas that appeared to have consistent dust distribution. Areas not subject to regular cleaning were selected when available. Other surfaces included: desks; table tops; file cabinets; window sills. Each sample was collected by wiping in a back and forth “S” pattern over a measured sampling area of approximately one square foot (1 SF), folding the wipe in half again with the collected dust side folded inward, and repeat the wiping procedure one more time, concentrating on collecting settled dust from all corners within the selected surface area. Then the wipe was folded over itself and the area was wiped again in a direction perpendicular to the first wipe orientation followed by a perimeter wipe of the surface area. The wipe samples were

then placed into labeled, clean laboratory-supplied plastic centrifuge tubes with screw on caps. Dust wipe samples were submitted to Schneider Laboratories for lead according to Environmental Protection Agency (EPA) method SW846 350B/7420.

2.4 Sample Analysis and Results Evaluation

The proposed sampling scheme, numbers of samples, sample distribution and general methodology was developed by GSA. Sample locations and samples collected from discretionary locations were determined by OCCU-TEC field personnel on-site.

The criteria for the evaluation of sample results was determined by GSA and provided to OCCU-TEC. The sample results for the investigation were compared to the following criteria:

- Asbestos in air = 70 s/mm²
- Lead in air = 30 ug/m³
- Settled lead on surfaces = 200 ug/ft²

The above target levels for evaluation of data were derived by GSA from the EPA clearance level for asbestos TEM samples (AHERA 40 CFR part 63), and the OSHA action limit for lead in air (OSHA 1926.62) and OSHA lead level used for the decontamination of industrial hygiene facilities outlined in OSHA instruction CPL 2-2.58 (lead dust). As previously stated, these target values were determined by GSA and do not reflect the opinion of OCCU-TEC.

2.5 Quality Assurance/Quality Control

Quality Assurance and Quality Control (QA/QC) was accomplished using several methods that are in general conformance with the accepted sample methodology noted above. Calibration of all air pumps for samples collected was accomplished utilizing a secondary calibration method (rotameter). Each rotameter utilized for calibration in the field was calibrated utilizing a primary calibrator (Bios Drycal Model DC LITE Calibrator) prior to the start of field activities. Documentation of the primary calibration is maintained at OCCU-TECs office in accordance with applicable state and federal regulations. Every pump was pre and post calibrated in accordance with the applicable sampling methodology.

Field blank samples were maintained for each sample type collected for each building. In the event that detections were noted in samples collected, blanks were analyzed. In the event that all TEM samples analyzed for a given building indicated sample results below the laboratory detection limit, blank TEM samples for that building and type of sample were not analyzed.

In accordance with the contract between OCCU-TEC and GSA, a Z-Test was completed for TEM samples collected during this assessment. The Z-Test samples were recorded in the sample scheme and numbering for building 110 and are reported in the table below.

Z-Test Sample Results	
Sample ID	Result (structures/mm²)
110-AA-031	<17.7
110-AA-032	<17.7
110-AA-033	<17.7
110-AA-034	<17.7
110-AA-035	<17.7

All samples were analyzed by properly trained and certified laboratories for the sample type and analysis type requested. Samples were shipped under proper chain of custody documentation. Each laboratory maintains a QA/QC process for the sample method which is available from the laboratory upon request.

3.0 BUILDING SAMPLE COLLECTION

3.1 Building 102E

In Building 102E, OCCU-TEC collected a total of nine (9) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from each floor. Sample locations are identified by floor and column number, are noted in all documentation included in Appendix A and are visually identified on the attached maps. OCCU-TEC collected a total of fourteen (14) samples for analysis of lead dust. Seven (7) lead wipes samples and seven (7) micro-vacuum samples, including blanks, were collected from various locations and components located throughout the first and second floors of the building. Sample locations and components are noted in the tables and lab reports included in Appendix A and are visually identified on the attached maps.

3.2 Buildings 103, 103D, 103E, and 103F

In Building 103, OCCU-TEC collected a total of thirty-three (33) sets of air samples, including blanks, for Lead and Asbestos analysis. Twelve (12) sample sets were collected from each floor, five (5) sample sets were collected from the basement and three (3) sample sets were collected from penthouses. OCCU-TEC collected a total of twenty-six (26) samples for analysis of lead dust from Building 103. Thirteen (13) lead wipe samples and thirteen (13) micro-vacuum samples, including blanks, were collected from various locations and components on the first floor, second floor, basement and penthouses of the building.

In Building 103D, OCCU-TEC collected a total of twelve (12) air sample sets, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from each floor and three (3) sample sets were collected from the basement. OCCU-TEC collected a total of fourteen (14) samples for analysis of lead dust from Building 103D. Seven (7) lead wipe samples and seven (7) micro-vacuum samples, including blanks, were collected from various locations and components on the first and second floors of the building.

In Building 103E, OCCU-TEC collected a total of twelve (12) air sample sets, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor, three (3) samples sets were collected from the second floor, and four (4) samples sets were collected from the basement. OCCU-TEC collected a total of sixteen (16) samples for analysis of lead dust from Building 103E. Seven (7) lead wipe samples and nine (9) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor and basement of the building.

In Building 103F, OCCU-TEC collected a total of nine (9) air sample sets, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor and four (4) sample sets were collected from the basement. OCCU-TEC collected a total of fourteen (14) samples, including blanks, for analysis of lead dust. Seven (7) lead wipe samples and seven (7) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor and basement of the building.

3.3 Buildings 104, 104E, and 104F

In Building 104, OCCU-TEC collected a total of forty-four (44) sets of air samples, including blanks, for Lead and Asbestos analysis. Sixteen (16) sample sets were collected from each floor, six (6) sample sets were collected from the basement and five (5) sample sets were collected from penthouses. OCCU-TEC collected a total of forty-three (43) samples for analysis of lead dust from Building 104. Nineteen (19) lead wipe samples and twenty-four (24) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor, basement, and penthouses of the building.

In Building 104E, OCCU-TEC collected a total of twelve (12) air sample sets, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor, three (3) sample sets of each were collected from the second floor, and four (4) sample sets of each were collected from the basement. OCCU-TEC collected a total of seventeen (17) samples for analysis of lead dust from Building 104E. Seven (7) lead wipe samples and ten (10) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor and basement of the building.

In Building 104F, OCCU-TEC collected a total of twelve (12) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor, three (3) sample sets from the second floor, and four (4) sample sets from the basement. OCCU-TEC collected a total of sixteen (16) samples for analysis of lead dust from Building 104F. Six (6) lead wipe samples and ten (10) micro-vacuum samples, including blanks, were collected from various locations and components located throughout the first floor, second floor and basement of the building.

3.4 Buildings 105, 105E, 105F, and 105L

In Building 105, OCCU-TEC collected a total of forty-five (45) sets of air samples, including blanks, for Lead and Asbestos analysis. Seventeen sets of air samples on the first floor, sixteen (16) sample sets second floor, five (5) sample sets were collected from the penthouses and six (6) sample sets were collected from basement. OCCU-TEC collected a total of forty-three (43) samples for analysis of lead dust from Building 105. Nineteen (19) lead wipes samples and twenty-four (24) micro-vacuum samples, including blanks, were collected from various locations and components located throughout the building.

In Building 105E, OCCU-TEC collected a total of eleven (11) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor, three (3) sample sets were collected from the second floor and three (3) sample sets were collected from the basement. OCCU-TEC collected a total of seventeen (17) samples for analysis of lead dust from Building 105E. Seven (7) lead wipe samples and ten (10) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor, and basement of the building.

In Building 105F, OCCU-TEC collected a total of eight (8) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor and three (3) sample sets from the second floor. OCCU-TEC collected a total of fourteen (14) samples for analysis of lead dust from Building 105F. Seven (7) lead wipe samples and seven (7) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor and second floor of the building.

In Building 105L, OCCU-TEC collected a total of six (6) sets of air samples, including blanks, for Lead and Asbestos analysis. OCCU-TEC collected a total of eight (8) samples for analysis of lead dust from Building 105L. Four (4) lead wipe samples and four (4) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor of the building.

3.5 Building 106

In Building 106, OCCU-TEC collected a total of three (3) sets of air samples, including blanks, for Lead and Asbestos analysis. OCCU-TEC collected one (1) sample for analysis of lead dust from Building 106.

3.6 Building 107

In Building 107, OCCU-TEC collected a total of twelve (12) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor, three (3) sample sets from the second floor and four (4) sample sets were collected from the basement. OCCU-TEC collected a total of sixteen (16) samples for analysis of lead dust from Building 107. Nine (9) lead wipe samples and seven (7) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor and basement of the building.

3.7 Building 110

In Building 110, OCCU-TEC collected a total of thirty (30) sets of air samples, including blanks, for Lead and Asbestos analysis. Twelve (12) sample sets were collected from the first floor, twelve (12) sample sets from the second floor and five (5) sample sets were collected from the basement. OCCU-TEC collected a total of thirty-five (35) samples for analysis of lead dust from Building 110. Sixteen (16) lead wipe samples and nineteen (19) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor, second floor and basement of the building.

3.8 Building 115

In Building 115, OCCU-TEC collected a total of nine (9) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) sample sets were collected from the first floor and four (4) sample sets were collected from the basement. OCCU-TEC collected a total of eight (8) samples for analysis of lead dust from Building 115. Two (2) lead wipe samples and six (6) micro-vacuum samples, including blanks, were collected from various locations and components throughout the first floor and second floor of the building.

3.9 Building 122B

In Building 122B, OCCU-TEC collected a total of nine (9) sets of air samples, including blanks, for Lead and Asbestos analysis. Four (4) samples sets were collected from the first floor and four (4) sample sets were collected from the basement. OCCU-TEC collected a total of five (5) samples for analysis of lead dust from Building 122B. Two (2) lead wipe samples and three (3) micro-vacuum samples were collected from various locations and components throughout the first floor and second floor of the building.

4.0 SAMPLE RESULTS

4.1 Building 102E

All air samples collected from Building 102E were below the applicable laboratory detection limit for the analysis method. All of the lead dust samples collected were below the laboratory detection limit with the exception of lead wipe samples 102E-PbW-003, 102E-PbW-004, and 102E-PbW-006. Sample 102E-PbW-003 collected from the top of a light fixture located on the first floor contained a detectable concentration of lead above the criteria established by GSA.

4.2 Buildings 103, 103D, 103E, and 103F

Of the samples collected from Building 103, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Eleven (11) of the dust samples collected contained concentrations of lead above the laboratory detection limit. Of the lead dust samples results with detections above the laboratory detection limit, four (4) lead wipe samples and three (3) lead micro-vacuum sample results were above the GSA established target level. These samples include 103-PbW-001, 103-PbW-002, 103-PbW-003, 103-PbW-012, 103-PbV-004, 103-PbV-005 and 103-PbV-012.

Of the samples collected from Building 103D, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected, one sample contained detectable concentrations of lead above the laboratory detection limit. The concentration detected in sample 103D-PbW-004 was below the target level established by the GSA.

Of the samples collected from Building 103E, all air sample concentrations reported were below the laboratory detection limit for the analysis conducted. Of the dust samples collected, five (5) samples contained detectable concentrations of lead above the laboratory detection limit. The concentrations detected in samples 103E-PbW-004, 103E-PbW-006, 103E-PbV-006 and 103E-PbW-008 were below the target level established by the GSA.

Of the samples collected from Building 103F, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from building 103F, six (6) samples contained concentrations of lead above the laboratory detection limit. The concentrations detected in samples 103F-PbV-001, 103F-PbV-002, 103F-PbV-003, 103F-PbW-001, 103F-PbW-002, and 103F-PbW-003 were above the GSA established target level.

4.3 Buildings 104, 104E, and 104F

Of the samples collected from Building 104, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Sixteen (16) of the dust samples collected contained concentrations of lead above the laboratory detection limit. Of the lead dust samples with concentrations above the laboratory detection limit, four (4) lead wipe samples and one (1) lead micro-vacuum sample contained detectable concentrations above the GSA established target level. These include samples 104-PbW-013, 104-PbW-014, 104-PbW-015, 104-PbW-018 and 104-PbV-020.

Of the samples collected from Building 104E, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from 104E, eight (8) samples contained detectable concentrations of lead above the laboratory detection limit. Of the samples collected with concentrations above the laboratory detection, samples 104E-PbW-003, 104E-PbW-006, 104E-PbV-004, 104E-PbV-007 and 104E-PbV-008 were detected in concentrations above the GSA established target levels.

Of the samples collected from Building 104F, all air sample concentrations reported were below the laboratory detection limit for the analysis conducted. Of the dust samples collected, five (5) samples contained concentrations of lead above the laboratory detection limit. The concentrations in samples 104F-PbW-005, 104F-PbV-001, 104F-PbV-002 and 104F-PbV-004 were above the GSA established target levels.

4.4 Buildings 105, 105E, 105F, and 105L

Of the samples collected from Building 105, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Fifteen (15) of the dust samples collected contained concentrations of lead above the laboratory detection limit. Of the lead dust samples with detections above the laboratory detection limit, three (3) lead wipe samples and six (6) lead micro-vacuum sample results were above the GSA established target level.

Of the samples collected from Building 105E, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from 105E, two (2) samples contained concentrations of lead above the laboratory detection limit. Of the samples collected with concentrations above the laboratory detection sample 105E-PbW-002 was detected at a concentration above the GSA established target levels.

Of the samples collected from Building 105F, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected, two (2) samples contained concentrations of lead above the laboratory detection limit. The concentration in sample 105F-PbW-003 was above the GSA established target levels.

Of the samples collected from Building 105L, all air sample and dust sample results were below the laboratory detection limit for the analysis method.

4.5 Building 106

Of the samples collected from Building 106, all air sample concentrations reported were below the laboratory detection limit for the analysis method. The dust sample collected contained a detectable concentration of lead above the laboratory detection limit and the GSA established target level.

4.6 Building 107

Of the samples collected from Building 107, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected, three (3) samples contained concentrations of lead above the laboratory detection limit. All concentrations of lead in dust samples were below the GSA established target levels.

4.7 Building 110

Of the samples collected from Building 110, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from 110, nine (9) samples contained concentrations of lead above the laboratory detection limit. Of the samples collected with concentrations above the laboratory detection limit, samples 110-PbW-013, 110-PbW-014, 110-PbW-015 and 110-PbV-018 were detected at concentrations above the GSA established target levels.

4.8 Building 115

Of the samples collected from Building 115, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from Building 115, two (2) samples contained concentrations of lead above the laboratory detection limit. Of the samples collected with concentrations above the laboratory detection limit, sample 115-PbV-005 contained lead at a concentration above the GSA established target levels.

4.9 Building 122B

Of the samples collected from Building 122B, all air sample concentrations reported were below the laboratory detection limit for the analysis method. Of the dust samples collected from Building 122B, three (3) samples contained concentrations of lead above the laboratory detection limit. Of the samples collected with concentrations above the laboratory detection limit, sample 122B-PbW-001 contained lead at a concentration above the GSA established target levels.

5.0 LIMITATIONS AND DEVIATIONS

Several limiting conditions were noted or observed during field sampling activities that caused changes to the initially planned sample locations and sample counts in each location. In some of the basements at the facility, adequate power to properly run the required pumps was either unavailable or the power outlet was in a deteriorated condition and was deemed ‘unsafe’ by the sampling technician. Water intrusion also limited the ability for technicians to enter and thus sample the space. In one instance a steam leak had caused the basement to fill with steam making sampling conditions unsafe. In a second instance, the sump pump in the basement had failed leading to approximately six inches of water on the basement floor. Additionally, water on concrete surfaces in basements often limited the ability of technicians to collect dust samples. Some areas of the facility were of a secure nature and access to these areas was prohibited by the tenant.

This report is prepared for the sole use of GSA, who may rely on this report under the terms and conditions agreed to by the blanket purchase agreement and issued task order. Reliance to other parties is prohibited without OCCU-TEC’s express written consent and in the event reliance is issued to other parties, said parties are bound by the terms and conditions detailed in the original proposal and agreed upon by GSA.

6.0 SIGNATURES

OCCU-TEC appreciates the opportunity to provide investigation services to GSA. If you have any questions regarding this report, please contact us at (816) 231-5580. Thank you for choosing OCCU-TEC.


Sincerely,

(b) (6)



Kevin Heriford
Project Manager

(b) (6)



Jeff Smith
Senior Project Manager, Lead RA (QA/QC)

APPENDIX A

SAMPLE RESULTS SUMMARY TABLE, SAMPLE LOCATION MAPS,
LABORATORY ANALYTICAL RESULTS AND CHAIN OF CUSTODY
DOCUMENTATION

BUILDING 102E

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 102E				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
102E-AA-001	1st Floor Column N-21	<15.2	s/mm ²	70 s/mm ²
102E-AA-002	1st Floor Column N-25	<15.2	s/mm ²	70 s/mm ²
102E-AA-003	1st Floor Column L-27	<15.2	s/mm ²	70 s/mm ²
102E-AA-004	1st Floor Column P-26	<15.2	s/mm ²	70 s/mm ²
102E-AA-005	2nd Floor Column N-21	<15.2	s/mm ²	70 s/mm ²
102E-AA-006	2nd Floor Column P-23	<15.2	s/mm ²	70 s/mm ²
102E-AA-007	2nd Floor Column N-27	<15.2	s/mm ²	70 s/mm ²
102E-AA-008	2nd Floor Column L-28	<15.2	s/mm ²	70 s/mm ²
102E-AA-009	Blank	<15.2	s/mm ²	70 s/mm ²
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
102E-PbA-001	1st Floor Column N-21	<3.33	µg/m ³	30 µg/m ³
102E-PbA-002	1st Floor Column N-25	<3.51	µg/m ³	30 µg/m ³
102E-PbA-003	1st Floor Column L-27	<3.93	µg/m ³	30 µg/m ³
102E-PbA-004	1st Floor Column P-26	<4.03	µg/m ³	30 µg/m ³
102E-PbA-005	2nd Floor Column N-21	<3.95	µg/m ³	30 µg/m ³
102E-PbA-006	2nd Floor Column P-23	<4.65	µg/m ³	30 µg/m ³
102E-PbA-007	2nd Floor Column N-27	<4.00	µg/m ³	30 µg/m ³
102E-PbA-008	2nd Floor Column L-28	<4.10	µg/m ³	30 µg/m ³
102E-PbA-009	Blank	<2.00	µg	30 µg/m ³
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
102E-PbW-001	1st Floor Janitor Closet Floor	<10	µg/ft ²	200 µg/ft ²
102E-PbW-002	1st Floor Break Room Shelf	<10	µg/ft ²	200 µg/ft ²
102E-PbW-003	1st Floor Light Fixture	266	µg/ft ²	200 µg/ft ²
102E-PbW-004	2nd Floor Elevator Room Floor	113	µg/ft ²	200 µg/ft ²
102E-PbW-005	2nd Floor South Floor	<10	µg/ft ²	200 µg/ft ²
102E-PbW-006	2nd Floor South West Light Fixture	47.4	µg/ft ²	200 µg/ft ²
102E-PbW-007	Blank	<10	µg	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
102E-PbV-001	1st Floor Office Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
102E-PbV-002	1st Floor Office Carpet	<92.9	µg/ft ²	200 µg/ft ²
102E-PbV-003	1st Floor Break Room Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
102E-PbV-004	2nd Floor Lobby Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
102E-PbV-005	2nd Floor Break Room Carpet	<92.9	µg/ft ²	200 µg/ft ²
102E-PbV-006	2nd Floor Office Carpet	<92.9	µg/ft ²	200 µg/ft ²
102E-PbV-007	Blank	<10	µg	200 µg/ft ²

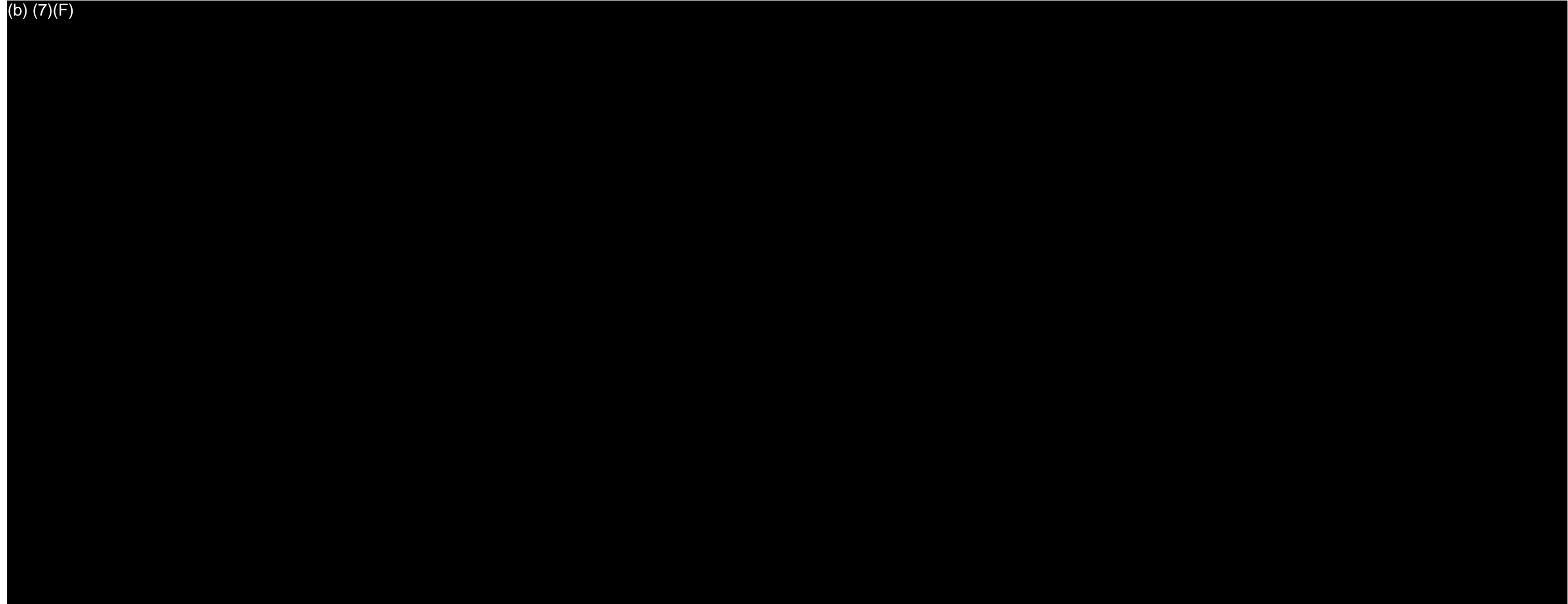
s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

NO SAMPLING DUE TO ACTIVE STEAM LEAK

(b) (7)(F)



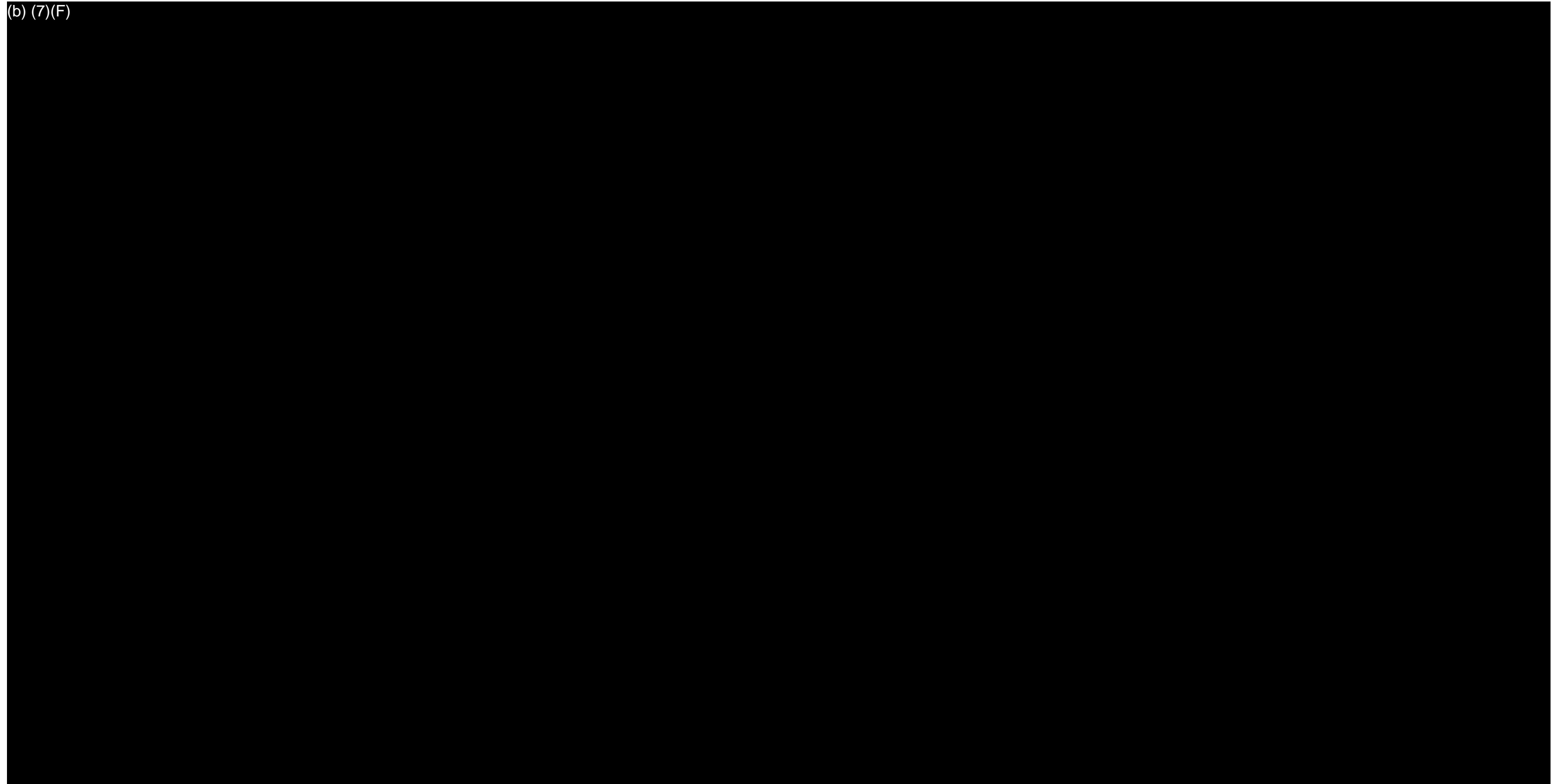
SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0605 (102E) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS 1 of 3

(b) (7)(F)



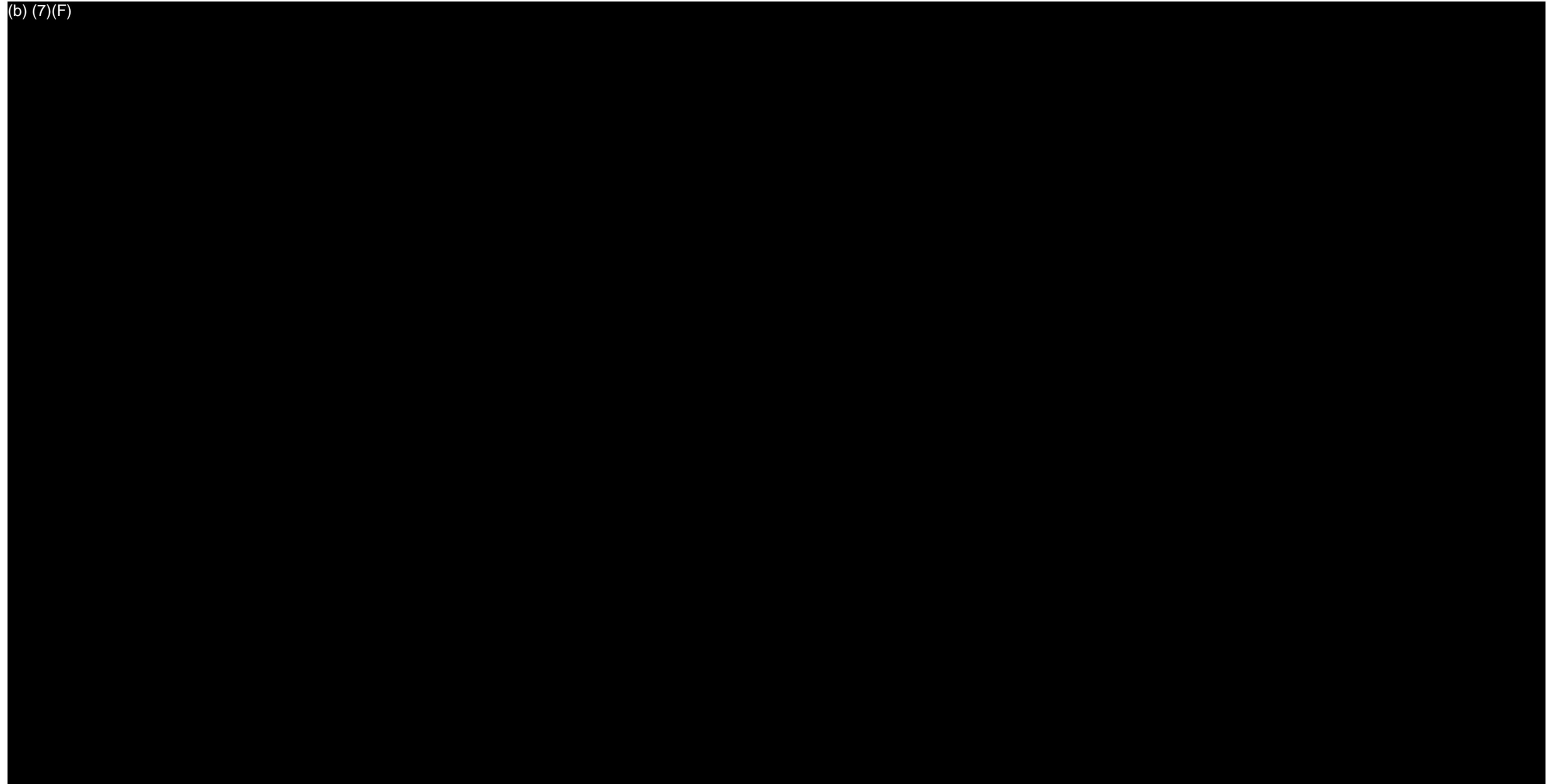
SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0605 (102E) - 2nd FLOOR		DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION		SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025		SCALE: 916029	NTS 2 of 2

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0605 (102E) - 1st FLOOR		DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION		SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025		SCALE: 916029	NTS 1 of 2



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159642
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Matrix Wipe
Received 02/23/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow Bldg 102E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date				
Parameter		Method	Area	Total	Conc.	RL*	
159642-001	102E-PbV-001	1st FL Office CT	02/16/16				
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159642-002	102E-PbV-002	1st FL Office Carpet	02/16/16				
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159642-003	102E-PbV-003	1st FL BkRm Ceiling Tile	02/16/16				
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159642-004	102E-PbV-004	2nd FL Lobby Ceiling Tile	02/16/16				
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159642-005	102E-PbV-005	2nd FL Break Rm Carpet	02/16/16				
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159642-006	102E-PbV-006	2nd FL Office Carpet	02/16/16				
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159642-007	102E-PbV-007	Blank	02/16/16				
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 µg/wipe	

Analyst IH
159642-02/23/16 08:03 PM

(b) (6)

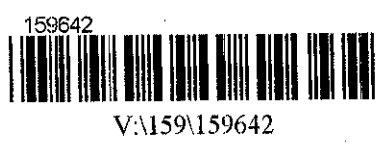
Reviewed By **Sultan Al-Johani**
Metals Team Leader

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com



Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutech.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow <i>Blk 102E</i>	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
102E-PBV-001	2-16-16	1500	1st Fl - Office Ceiling Tile	100cm ²						
-002			1st Fl - Office Carpet	100cm ²						
-003			1st Fl - Bk Rm Ceiling Tile	100cm ²						
-004			2nd Fl Lobby Ceiling Tile	100cm ²						
-005			2nd Fl Break Rm Carpet	100cm ²						
-006			2nd Fl Office Carpet	100cm ²						
-007			Blank	—						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by <i>Jeff Smith</i> SIGNATURE: DATE / TIME: <u>2-16-16</u>	Relinquished to lab by <i>Jeff Smith</i> NAME: <u>Jeff Smith</u> SIGNATURE: DATE / TIME: <u>2-21-16 1000</u>	<u>2-23-16</u> DATE / TIME: <u>2-23-16</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab <small>(\$50 fee for excessive weight)</small> Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>1081</u>
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Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159641

Matrix Wipe
Received 02/23/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow-Bldg 102E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159641-001	102E-W-001	1st FI Jan Closet FI	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159641-002	102E-W-002	1st FI Break Rm Shelf	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159641-003	102E-W-003	1st FI Light Fixture	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	266 µg/wipe	266 µg/ft2	10.0 µg/ft2
159641-004	102E-W-004	2nd Elev Rm FI	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	113 µg/wipe	113 µg/ft2	10.0 µg/ft2
159641-005	102E-W-005	2nd S Floor	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159641-006	102E-W-006	2nd Light Fixture	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	47.4 µg/wipe	47.4 µg/ft2	10.0 µg/ft2
159641-007	102E-W-007	Blank	02/16/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 µg/wipe

Analyst OHE
159641-02/23/16 04:36 PM

(b) (6)

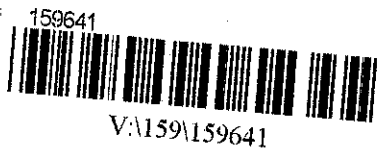
Reviewed By **Marti Baird**
Analyst

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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 www.slabinc.com e-mail: info@slabinc.com



Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - Bldg 102E	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
102E-W-001	2-16-16	1500	1st Fl Jan Closet Floor	1 SF						
-W-002			1st Fl Break Rm Shelf	1 SF						
-W-003			1st Fl Light Fixture	1 SF						
-W-004			2nd Elev Rm Floor	1 SF						
-W-005			2nd South Floor	1 SF						
-W-006			2nd Light Fixture	1 SF						
-W-007			Blank							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Jeff Smith SIGNATURE (b) (6) DATE / TIME 2-16-16	Relinquished to lab by Jeff Smith SIGNATURE (b) (6) DATE / TIME 2-21-16 1600	2-23-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2084
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* Temperature taken with IR Gun A. ** Required.

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159640

Matrix: Air
Received: 02/23/16
Analyzed: 02/23/16
Reported: 02/24/16

Attn:
Project: Goodfellow-Bldg 102E
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume
Parameter	Method		Total	RL*	Conc.	8 Hr TWA
159640-001	102E-PbA-001	1st FI Column N21	02/16/16	180 min	3.34 L/min	601 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.33 µg/m3	<1.25 µg/m3
159640-002	102E-PbA-002	1st FI Column N25	02/16/16	171 min	3.34 L/min	571 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.51 µg/m3	<1.25 µg/m3
159640-003	102E-PbA-003	1st FI Column L27	02/16/16	167 min	3.05 L/min	509 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.93 µg/m3	<1.37 µg/m3
159640-004	102E-PbA-004	1st FI Column P26	02/16/16	163 min	3.05 L/min	497 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<4.03 µg/m3	<1.37 µg/m3
159640-005	102E-PbA-005	2nd FI Column N21	02/16/16	166 min	3.05 L/min	506 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.95 µg/m3	<1.37 µg/m3
159640-006	102E-PbA-006	2nd FI Column P23	02/16/16	141 min	3.05 L/min	430 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<4.65 µg/m3	<1.37 µg/m3
159640-007	102E-PbA-007	2nd FI Column N27	02/16/16	164 min	3.05 L/min	500 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<4.00 µg/m3	<1.37 µg/m3
159640-008	102E-PbA-008	2nd FI Column L28	02/16/16	160 min	3.05 L/min	488 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<4.10 µg/m3	<1.37 µg/m3
159640-009	102E-PbA-009	Field Blank	02/16/16			
Lead	NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH
159640-02/24/16 09:31 AM

(b) (6)

Reviewed By: Abisola Kasali
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

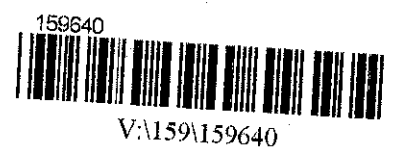
Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
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Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutech.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - Bldg 102 E	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn-Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam
		FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:		

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
102E-P6A-001	2-16-16	0830	1st Fl Column N-21			842	1142	3.63	3.05	601.2
-002			1st Fl Col N-25			0901	1152	3.63	3.05	511.14
-003			1st Fl Col L-27			0912	1159	3.05	3.05	509.35
-004			1st Fl Col P-26			0921	1204	3.05	3.05	497.15
-005			2nd Fl Col N-21			939	1225	3.05	3.05	506.3
-006			2nd Fl Col P-23			9:53	1214	3.05	3.05	430.05
-007			2nd Fl Col N-27			1001	1248	3.05	3.05	500.2
-008			2nd Fl Col L-28			1009	1249	3.05	3.05	488
-009			Field Blank			-	-	-	-	-

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters (time in min x flow in L/min)
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-16-16 0830</u>	Relinquished to lab by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-16-16 1800</u>	<u>2-23-16</u> <u>(b) (6)</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2084</u>
--	--	----------------------------------	--

* Temperature taken with IR Gun A. ** Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

3.34



**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 26, 2016

Attention: Jay Hurst
OCCU-TEC, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2236OCCA.1
Goodfellow- Bldg 102 E. Project
OCC#916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 23, 2016. These samples represent the TEM samples for the Goodfellow- Bldg 102 E. Project - OCC#916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eight (8) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow- Bldg 102 E. Project - OCC#916029

McCall and Spero Project No: MSE-2236OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	102E-AA-001	NSD	NA	1473.15	0.0040	BDL (0.0040)*	BDL (15.2)*
I02	102E-AA-002	NSD	NA	1343.32	0.0044	BDL (0.0044)*	BDL (15.2)*
I03	102E-AA-003	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*
I04	102E-AA-004	NSD	NA	1320.20	0.0044	BDL (0.0044)*	BDL (15.2)*
I05	102E-AA-005	NSD	NA	1352.4	0.0043	BDL (0.0043)*	BDL (15.2)*
I06	102E-AA-006	NSD	NA	1360.5	0.0043	BDL (0.0043)*	BDL (15.2)*
I07	102E-AA-007	NSD	NA	1336.30	0.0044	BDL (0.0044)*	BDL (15.2)*
I08	102E-AA-008	NSD	NA	1296.05	0.0045	BDL (0.0045)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director: 

Date: 2/26/16



McCall and Spero
Environmental, Inc.
 Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC. Telephone #: 816-231-5580 Fax #: 816-994-3470
 Contact: Jay Hurst Client Project Number: 916029
 Relinquished by: _____ Date: _____ Time: _____
 Written Report To: jayhurst@occutec.com ; jsmith@occutec.com
 Project Name: Goodfellow - Bldg 102 E
 Turn-Around Time: (Circle One) 4 Hour | 6-8 Hour(same day) | 24 Hour | 2-3 Day | 4-5 Day | Weekend Rush | After Hour Rush

~~For Laboratory Use Only~~

MSE Project #: MSE- 22360CCA.01 Comments: Intact
 Samples Received by: (b) (6) Date: 02/23/10 Time: 10:30 AM
 Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763
 Samples Prepared By: (b) (6) Method: Burdett & Rood
 Samples Analyzed By: _____ Date: 2/26/10

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
102E-AA-001	1st FI Column N-21	8:39	11:42	183	8.05	1473.15
-002	1st FI Col N-25	9:00	11:52	172	7.81	1343.32
-003	1st FI Col L-27	9:12	11:59	167	8.05	1344.35
-004	1st FI Col P-26	9:19	12:03	164	8.05	1320.20
-005	2nd FI Col N-21	9:37	12:25	172 ¹⁶⁸	8.05	1384.6 1352.4
-006	2nd FI Col P-23	9:51	12:40	171 ¹⁶⁹	8.05	1376.55 1360.5
-007	2nd FI Col N-27	9:58	12:44	166	8.05	1336.30
-008	2nd FI Col L-28	10:07	12:48	161	8.05	1296.05
-009	Field Blank	-	-	-	-	-

Results Transmitted/Date: _____ Fax/Phone By: _____

BUILDING 103, 103D, 103E, 103F

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 103				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103-AA-001	1st Floor Column F-1	<15.2	s/mm ²	70 s/mm ²
103-AA-002	1st Floor Column J-3	<15.2	s/mm ²	70 s/mm ²
103-AA-003	1st Floor Column F-5	<15.2	s/mm ²	70 s/mm ²
103-AA-004	1st Floor Column B-10	<15.2	s/mm ²	70 s/mm ²
103-AA-005	2nd Floor Column C-2	<15.2	s/mm ²	70 s/mm ²
103-AA-006	2nd Floor Column B-6	<15.2	s/mm ²	70 s/mm ²
103-AA-007	2nd Floor Column G-2.5	<15.2	s/mm ²	70 s/mm ²
103-AA-008	2nd Floor Column G-6.5	<15.2	s/mm ²	70 s/mm ²
103-AA-009	2nd Floor Colum H-13	<15.2	s/mm ²	70 s/mm ²
103-AA-010	2nd Floor Column E-20	<15.2	s/mm ²	70 s/mm ²
103-AA-011	2nd Floor Column B-27	<15.2	s/mm ²	70 s/mm ²
103-AA-012	Blank	Not Analyzed		
103-AA-013	2nd Floor Column B-13	<15.2	s/mm ²	70 s/mm ²
103-AA-014	2nd Floor Column E-31	<15.2	s/mm ²	70 s/mm ²
103-AA-015	2nd Floor Column F-36	<15.2	s/mm ²	70 s/mm ²
103-AA-016	2nd Floor Column G-39	<15.2	s/mm ²	70 s/mm ²
103-AA-017	2nd Floor Column F-33	<15.2	s/mm ²	70 s/mm ²
103-AA-018	1st Floor Column H-32	<15.2	s/mm ²	70 s/mm ²
103-AA-019	1st Floor Column D-32	<15.2	s/mm ²	70 s/mm ²
103-AA-020	1st Floor Column D-36	<15.2	s/mm ²	70 s/mm ²
103-AA-021	1st Floor Column H-36	<15.2	s/mm ²	70 s/mm ²
103-AA-022	1st Floor Office Column B-27	<15.2	s/mm ²	70 s/mm ²
103-AA-023	1st Floor Mechanical Room Column B-21	<15.2	s/mm ²	70 s/mm ²
103-AA-024	1st Floor Column J-32	<15.2	s/mm ²	70 s/mm ²
103-AA-025	1st Floor Column F-31	<15.2	s/mm ²	70 s/mm ²
103-AA-026	Center East Penthouse	<15.2	s/mm ²	70 s/mm ²
103-AA-028	North East Penthouse	<15.2	s/mm ²	70 s/mm ²
103-AA-029	North East Penthouse	<15.2	s/mm ²	70 s/mm ²
103-AA-031	Basement East	<15.2	s/mm ²	70 s/mm ²
103-AA-032	Basement East	<15.2	s/mm ²	70 s/mm ²
103-AA-033	Basement Middle	<15.2	s/mm ²	70 s/mm ²
103-AA-034	Basement Middle	<15.2	s/mm ²	70 s/mm ²
103-AA-035	Basement Middle	<15.2	s/mm ²	70 s/mm ²

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 103				
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103-PbA-001	1st Floor Column F-1	<3.31	µg/m ³	30 µg/m ³
103-PbA-002	1st Floor Column J-3	<3.31	µg/m ³	30 µg/m ³
103-PbA-003	1st Floor Column F-5	<3.31	µg/m ³	30 µg/m ³
103-PbA-004	1st Floor Column B-10	<3.31	µg/m ³	30 µg/m ³
103-PbA-005	2nd Floor Column C-2	<3.51	µg/m ³	30 µg/m ³
103-PbA-006	2nd Floor Column B-6	<3.31	µg/m ³	30 µg/m ³
103-PbA-007	2nd Floor Column G-2.5	<3.31	µg/m ³	30 µg/m ³
103-PbA-008	2nd Floor Column G-6.5	<3.31	µg/m ³	30 µg/m ³
103-PbA-009	2nd Floor Column H-13	<3.31	µg/m ³	30 µg/m ³
103-PbA-010	2nd Floor Column E-20	<3.29	µg/m ³	30 µg/m ³
103-PbA-011	2nd Floor Column B-27	<3.31	µg/m ³	30 µg/m ³
103-PbA-012	Blank	<2.00	µg	30 µg/m ³
103-PbA-013	2nd Floor Column B-13	<2.68	µg/m ³	30 µg/m ³
103-PbA-014	2nd Floor Column E-31	<2.73	µg/m ³	30 µg/m ³
103-PbA-015	2nd Floor Column F-36	<2.74	µg/m ³	30 µg/m ³
103-PbA-016	2nd Floor Column G-39	<2.78	µg/m ³	30 µg/m ³
103-PbA-017	2nd Floor Column F-33	<3.30	µg/m ³	30 µg/m ³
103-PbA-018	1st Floor Column H-32	<2.48	µg/m ³	30 µg/m ³
103-PbA-019	1st Floor Column D-32	<2.76	µg/m ³	30 µg/m ³
103-PbA-020	1st Floor Column D-36	<3.60	µg/m ³	30 µg/m ³
103-PbA-021	1st Floor Column H-36	<3.17	µg/m ³	30 µg/m ³
103-PbA-022	1st Floor Office Column B-27	<3.10	µg/m ³	30 µg/m ³
103-PbA-023	1st Floor Mechanical Room Column B-21	<3.27	µg/m ³	30 µg/m ³
103-PbA-024	1st Floor Column J-32	<3.29	µg/m ³	30 µg/m ³
103-PbA-025	1st Floor Column F-31	<3.27	µg/m ³	30 µg/m ³
103-PbA-026	Center East Penthouse	<1.85	µg/m ³	30 µg/m ³
103-PbA-028	North East Penthouse	<1.92	µg/m ³	30 µg/m ³
103-PbA-029	North East Penthouse	<1.95	µg/m ³	30 µg/m ³
103-PbA-031	Basement East	<2.69	µg/m ³	30 µg/m ³
103-PbA-032	Basement East	<2.72	µg/m ³	30 µg/m ³
103-PbA-033	Basement Middle	<2.72	µg/m ³	30 µg/m ³
103-PbA-034	Basement Middle	<2.73	µg/m ³	30 µg/m ³
103-PbA-035	Basement Middle	<2.61	µg/m ³	30 µg/m ³

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 103				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103-PbW-001	Basement Top of Equipment	3450	µg/ft ²	200 µg/ft ²
103-PbW-002	Basement Top of Pipe Jacket	426	µg/ft ²	200 µg/ft ²
103-PbW-003	Basement Stairwell Hand Rail	316	µg/ft ²	200 µg/ft ²
103-PbW-004	Penthouse 2 Floor	112	µg/ft ²	200 µg/ft ²
103-PbW-005	Penthouse 2 Floor	45.3	µg/ft ²	200 µg/ft ²
103-PbW-006	Penthouse 1 Floor	31.3	µg/ft ²	200 µg/ft ²
103-PbW-007	1st Floor Column G-4 Top of Light Fixture	180	µg/ft ²	200 µg/ft ²
103-PbW-008	1st Floor Column F-51 Top of Shelf	<10	µg/ft ²	200 µg/ft ²
103-PbW-009	2nd Floor Column B-10.5 Window Sill	<10	µg/ft ²	200 µg/ft ²
103-PbW-010	2nd Floor Column C-05 Top of Divider Wall	<10	µg/ft ²	200 µg/ft ²
103-PbW-011	2nd Floor Column H-27 Top of Shelf	<10	µg/ft ²	200 µg/ft ²
103-PbW-012	1st Floor Column B-21 Top of Air Handler	1440	µg/ft ²	200 µg/ft ²
103-PbW-013	Blank	<10	µg	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103-PbV-001	Basement Floor West	<92.9	µg/ft ²	200 µg/ft ²
103-PbV-002	Basement Ledge West	<92.9	µg/ft ²	200 µg/ft ²
103-PbV-003	Basement Top of Pipe	<92.9	µg/ft ²	200 µg/ft ²
103-PbV-004	Basement Stair East	525	µg/ft ²	200 µg/ft ²
103-PbV-005	Basement Northwest Concrete Pad	1160	µg/ft ²	200 µg/ft ²
103-PbV-006	Basement Tunnel West	<92.9	µg/ft ²	200 µg/ft ²
103-PbV-007	1st Floor Column G-05 Carpet	<92.9	µg/ft ²	200 µg/ft ²
103-PbV-008	1st Floor Column F-05 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
103-PbV-009	2nd Floor Freight Elevator Floor	<92.9	µg/ft ²	200 µg/ft ²
103-PbV-010	2nd Floor Column C-06 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
103-PbV-011	2nd Floor Column H-27 Top of Couch	<92.9	µg/ft ²	200 µg/ft ²
103-PbV-012	1st Floor Column B-21 Floor Near Grate	200	µg/ft ²	200 µg/ft ²
103-PbV-013	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0606 (103) - PENTHOUSE	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE:	NTS
	916029	

(b) (7)(F)

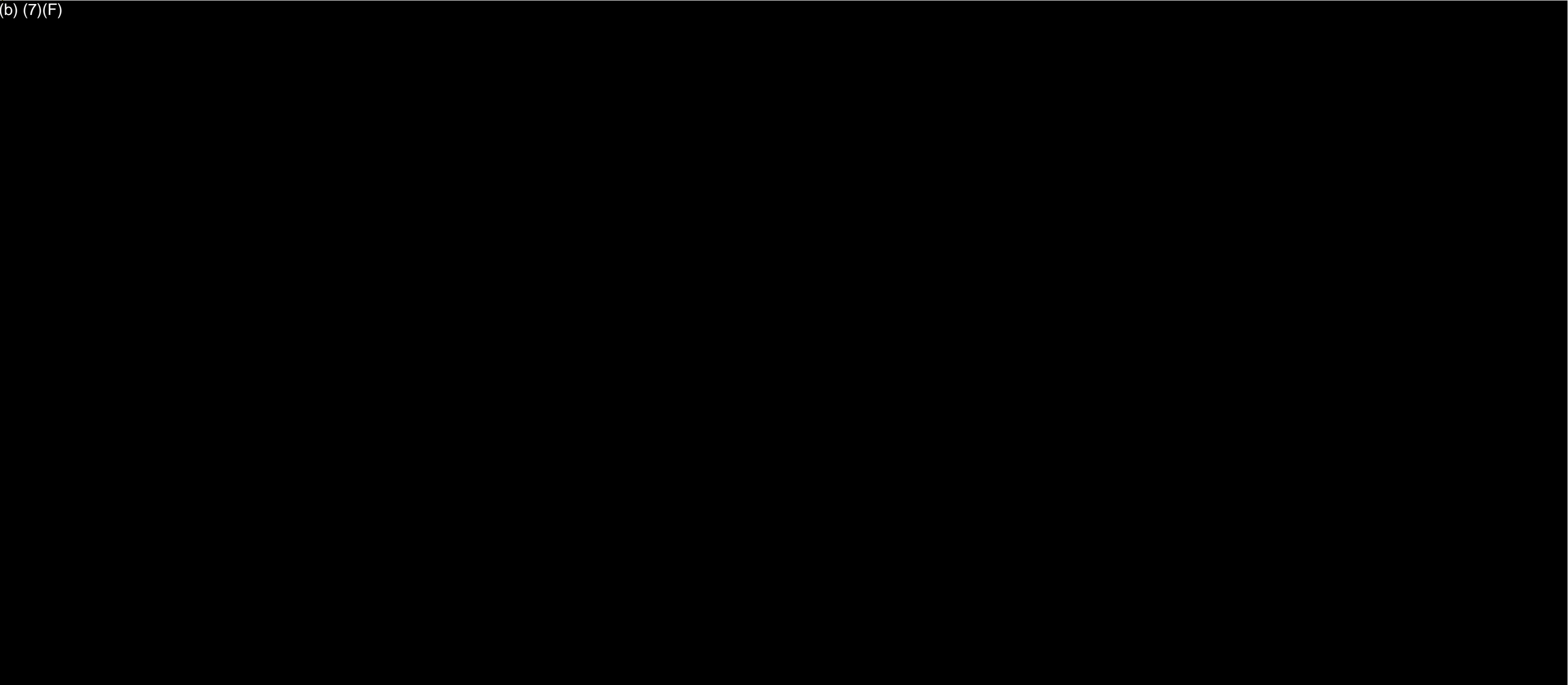
SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0606 (103) - Basement		DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION		SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025		SCALE:	NTS
		916029	

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0606 (103) - 2nd FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS

(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0606 (103) - 1st FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 160046

Matrix Wipe
Received 02/26/16
Analyzed 02/26/16
Reported 02/27/16

Project Goodfellow 103
Location St. Louis, MO
Number 916029

Table with 7 columns: Sample ID, Cust. Sample ID, Location Method, Sample Date Area, Total, Conc., RL*. Rows include various sample IDs (160046-001 to 160046-013) and their corresponding test results for Lead.

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	160046
-----------------	--------

Matrix Wipe
Received 02/26/16
Analyzed 02/26/16
Reported 02/27/16

Project Goodfellow 103
Location St. Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Total	Conc.	RL*
Parameter		Method	Area			

Analyst SA
160046-02/27/16 12:12 PM

(b) (6)

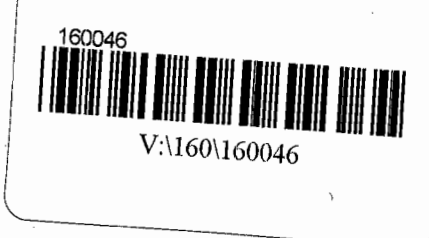
Reviewed By **Omar Elshowaya**
Analyst

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com



Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 103	Special Instructions [Include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air	Asbestos in Bulk	Metals-Total
		Miscellaneous Tests	FOR ASBESTOS AIR:	Microbiology
		<input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500)	<input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	<input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day
		Other	TYPE OF RESPIRATOR	<input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam
			USED:	

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103-P6W-001	2/22		Basement - Top of Equip	1						
103-P6W-002			Basement - Top of Jacket 90	1						
103-P6W-003			Basement - Stairwell handrail	1						
103-P6W-004			Penthouse 2 - Floor	1						
103-P6W-005			Penthouse 2 - Floor	1						
103-P6W-006			Penthouse 1 - Floor	1						
103-P6W-007			1 st G4 - Light fixture	1						
103-P6W-008			1 st - FS1 - Top of Shelf	1						
103-P6W-009			2 nd - B10.5 - Window Sill	1						
103-P6W-010			2 nd - CS - Top	1						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: <u>Jeff Smith</u> TITLE: <u>(b) (6)</u> DATE / TIME: <u>2-22-16 1800</u>	Relinquished to lab by NAME: _____ SIGNATURE: _____ DATE / TIME: _____	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>224</u>
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> Cl <input checked="" type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> X <input checked="" type="checkbox"/> Receive		

* Temperature taken with IR Gun A. ** Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions apply.



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WO Label

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 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead* <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103-P6W-011	2/22		2 nd - H27 - Top of Shelf	1						
103-P6W-012	↓		1 st - B21 - Top of AH	1						
103-P6W-013	↓		Blank	1						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-22-16 1800</u>	Relinquished to lab by NAME _____ SIGNATURE _____ DATE / TIME _____	2 26 16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>B224</u>
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Term



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	160045
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Matrix Wipe
Received 02/26/16
Analyzed 02/27/16
Reported 02/27/16

Project Goodfellow 103
Location St Louis MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter		Method					
160045-001	103-PbV-001	Basement Floor W	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160045-002	103-PbV-002	Basement Ledge W	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160045-003	103-PbV-003	Basement P6 Pipe	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160045-004	103-PbV-004	Basement Stair E	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	56.5 µg/wipe	525 µg/ft2	92.9 µg/ft2
160045-005	103-PbV-005	Basement NW CC Pad	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	125 µg/wipe	1160 µg/ft2	92.9 µg/ft2
160045-006	103-PbV-006	Basement Tunnel W	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160045-007	103-PbV-007	1st G5 Carpet	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160045-008	103-PbV-008	1st F5 Ceiling Tile	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160045-009	103-PbV-009	2nd Freight Eleve Floor	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160045-010	103-PbV-010	2nd C6 Top Of CT	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160045-011	103-PbV-011	2nd H27 Top Couch	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160045-012	103-PbV-012	1st B21 Floor Near Grate	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	21.5 µg/wipe	200 µg/ft2	92.9 µg/ft2
160045-013	103-PbV-013	Blank	02/22/16				
Lead		EPA 7000B - Vacwipe / 3050B			<10.0 µg/wipe		10.0 µg/wipe

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	160045
-----------------	--------

Matrix Wipe
Received 02/26/16
Analyzed 02/27/16
Reported 02/27/16

Project Goodfellow 103
Location St Louis MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Total	Conc.	RL*
Parameter		Method	Area			

Analyst HI
160045-02/27/16 05:25 PM

(b) (6)

Reviewed By **Omar Elshowaya**
Analyst

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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V:\160\160045

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 103	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † * Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.	All samples on form should be of SAME matrix type. Use additional forms as needed. <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type')	Wiped Area (ft²)	pH / Temp *	Time ^a		Flow Rate ^a		Total ^a Air
						Start	Stop	Start	Stop	
103-P6V-001	2/22		Basement - Floor W	100 cm²						
103-P6V-002			Basement - Ledge W							
103-P6V-003			Basement - PB-Pipe							
103-P6V-004			Basement - Stair E							
103-P6V-005			Basement - NW-CC Pad							
103-P6V-006			Basement - Tunnel W.							
103-P6V-007			1 st - GS - Carpet							
103-P6V-008			1 st - FS - Cycling tile							
103-P6V-009			2 nd - Freight Elev. Floor							
103-P6V-010			2 nd - C6 - Top of CT							

*Type: A=Area B=Blank P=Personal E=Excursion ^aBeginning/End of Sample Period ^bPump Calibration in Liters/Minute ^cVolume in Liters [time in min x flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Jeff Smith SIGNATURE (b) (6) DATE / TIME 2-22-16 1900	Relinquished to lab by Jeff Smith SIGNATURE (b) (6) DATE / TIME 2-25-16	22616 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2224
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Sample return requested Ambient temp Ice CI R S X Re
 * Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms



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 www.slabinc.com e-mail: info@slabinc.com

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 103	Special Instructions [Include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103-PBV-011	2/22		2 nd - H27 - Top of Couch	100 cm ²						
103-PBV-012	↓		1 st - B21 - Floor near Grate	↓						
103-PBV-013	↓		Blank	↓						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min × flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-22-16</u> <u>1800</u>	Relinquished to lab by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-25-16</u>	<u>2-26-16</u> <u>(b) (6)</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WP: <u>2224</u>
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> Cl <input type="checkbox"/> R <input checked="" type="checkbox"/> S <input checked="" type="checkbox"/> X			

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab.



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159780

Matrix: Air
Received: 02/24/16
Analyzed: 02/25/16
Reported: 02/25/16

Attn:
Project: Goodfellow 103
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume
Parameter	Method		Total	RL*	Conc.	8 Hr TWA
159780-001	103-PbA-001	1st Floor 1F	02/19/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-002	103-PbA-002	1st Floor J3	02/19/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-003	103-PbA-003	1st Floor F5	02/19/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-004	103-PbA-004	1st Floor B10	02/19/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-005	103-PbA-005	2nd Floor C2	02/19/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-006	103-PbA-006	2nd Floor B6	02/19/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-007	103-PbA-007	2nd Floor G2.8	02/19/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
<i>Endcaps missing; possible cross-contamination or sample loss.</i>						
159780-008	103-PbA-008	2nd Floor G6.5	02/19/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-009	103-PbA-009	2nd Floor H13	02/19/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-010	103-PbA-010	2nd Floor E20	02/19/16	166 min	3.67 L/min	609 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.29 µg/m3	<1.14 µg/m3
159780-011	103-PbA-011	2nd Floor B27	02/19/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159780-012	103-PbA-012	Blank	02/19/16			
Lead	NIOSH 7082M		<2.00 µg	2.00 µg		
159780-013	103-PbA-013	2nd B13	02/22/16	204 min	3.67 L/min	749 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<2.68 µg/m3	<1.14 µg/m3
159780-014	103-PbA-014	2nd E31	02/22/16	200 min	3.67 L/min	734 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<2.73 µg/m3	<1.14 µg/m3
159780-015	103-PbA-015	2nd F36	02/22/16	199 min	3.67 L/min	730 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<2.74 µg/m3	<1.14 µg/m3
159780-016	103-PbA-016	2nd G39	02/22/16	196 min	3.67 L/min	719 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<2.78 µg/m3	<1.14 µg/m3
159780-017	103-PbA-017	1st F33	02/22/16	193 min	3.14 L/min	606 L

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

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804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159780

Matrix Air
Received 02/24/16
Analyzed 02/25/16
Reported 02/25/16

Attn:
Project: Goodfellow 103
Location: St Louis, MO
Number: 916029

PO Number:

Table with columns: Sample ID, Cust. ID, Location, Date, Time, Flow, Volume, Parameter, Method, Total, RL*, Conc., 8 Hr TWA. Contains 35 rows of sample data.

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159780
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Matrix Air
Received 02/24/16
Analyzed 02/25/16
Reported 02/25/16

Attn:
Project: Goodfellow 103
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume
Parameter		Method		Total	RL*	Conc.
						8 Hr TWA
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	

Analyst: MHB
159780-02/25/16 04:33 PM

(b) (6)

Reviewed By: **Abisola Kasali**
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



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 www.slabinc.com e-mail: info@slabinc.com

159780



V:159\159780

Submitting Co. OCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103	Special Instructions [Include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>† A job received past 3PM will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type')	Wiped Area (ft²)	pH / Temp *	Time²		Flow Rate³		Total⁴ Air
						Start	Stop	Start	Stop	
103-PbA-001	2/19/14		1st floor 1F			0715	1000	3.67	3.67	605.55
103-PbA-002			1st floor J3			0722	1007	3.67	3.67	605.55
103-PbA-003			1st floor F5			0732	1017	3.67	3.67	605.55
103-PbA-004			1st floor B10			0745	1030	3.67	3.67	605.55
103-PbA-005			2nd floor C2			0757	1042	3.67	3.67	605.55
103-PbA-006			2nd floor BC6			0800	1045	3.67	3.67	605.55
103-PbA-007			2nd floor G2.8			0805	1050	3.67	3.67	605.55
103-PbA-008			2nd floor GG.5			0810	1055	3.67	3.67	605.55
103-PbA-009			2nd floor H13			0813	1058	3.67	3.67	605.55
103-PbA-010			2nd floor E20			0817	1103	3.67	3.67	605.55

*Type: A=Area B=Blank P=Personal E=Excursion †Beginning/End of Sample Period ‡Pump Calibration in Liters/Minute ⁴Volume in Liters (time in min x flow in L/min)

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Justin Arnold SIGNATURE (b) (6) DATE / TIME 2-19-2014	Relinquished to lab by NAME (b) (6) SIGNATURE (b) (6) DATE / TIME 2/23 0850	2-24-14 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FAX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2213
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* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within Lab. Terms and conditions page 2.



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Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> HI-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> HI-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
105-P6A-013	2/22		2 nd - B-13			757	1121	3.67	3.67	748.68
103-P6A-014			2 nd - E31			0706	1126	3.67	3.67	734
103-P6A-015			2 nd - F36			0813	1132	3.67	3.67	770.53
103-P6A-016			2 nd - G39			0820	1136	3.67	3.67	719.52
103-P6A-017			1 st - H32 ^{KH} F33			0726	1139	3.67	2.61	603.2
103-P6A-018			1 st - D32 ^{KH} H32			0834	1214	3.67	3.67	807.4
103-P6A-019			1 st - D36 ^{KH} D32			0740	1158	3.67	3.67	726.66
103-P6A-020			1 st - H-36 ^{KH} D36			0905	1202	3.67	2.61	555.78
103-P6A-021			1 st - B27 ^{KH} H36			0913	1205	3.67	3.67	631.24
103-P6A-022			1 st - B27			0923	1219	3.67	3.67	645.92

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: Jeff R Smith SIGNATURE: (b) (6) DATE / TIME: 2-22-16	Relinquished to lab by NAME: K. Huff SIGNATURE: (b) (6) DATE / TIME: 2/23 0850	2-24-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2213
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Sample return requested Ambient temp Ice CI R S X Re
 * Temperature taken with IR Gun A. **Required Chain-of-Custody documentation continued internally within lab. Terms



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 www.slabin.com e-mail: info@slabin.com

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 103	Special Instructions [Include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type)	Wiped Area (ft²)	pH / Temp *	Time*		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103-P6A-023	2/22		1 st - B21			0935	1222	3.67	3.67	612.89
103-P6A-024			1 st - J32			0945	1231	3.67	3.67	609.22
103-P6A-025			1 st - F31			0950	1237	3.67	3.67	612.89
103-P6A-026			Penthouse - 2			1037	1532	3.67	3.67	1072.65
103-P6A-028			Penthouse - 1			1110	1554	3.67	3.67	1042.25
103-P6A-029			Penthouse - 1			1114	1554	3.67	3.67	1027.6
103-P6A-031			Basement East			1420	1743	3.67	3.67	745.01
103-P6A-32			Basement - East			1422	1743	3.67	3.67	737.67
103-P6A-33			Basement - Center			1426	1747	3.67	3.67	737.67
103-P6A-034			Basement - Center			1428	1748	3.67	3.67	734.00

*Type: A=Area B=Blank P=Personal E=Excursion **Beginning/End of Sample Period *Pump Calibration in Liters/Minute ⁴Volume in Liters [Time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: Jeff Smith SIGNATURE: (b) (6) DATE / TIME: 2-22-16	Relinquished to lab by NAME: K. H. [redacted] SIGNATURE: (b) (6) DATE / TIME: 2/23 0850	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WR: 2213
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* Temperature taken with IR Gun A. **Required Chain-of-Custody documentation continued internally within lab



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Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 103	Special Instructions [Include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103-96A-035	2/22		Basement - Center			1430	1759	3.67	3.67	757.67

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: <u>Jeff Smith</u> SIGNATURE: (b) (6) DATE / TIME: <u>2/22/16</u>	Relinquished to lab by NAME: <u>K. Purford</u> SIGNATURE: (b) (6) DATE / TIME: <u>2/23 12:50</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> HD <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> DB WB: <u>2215</u>
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> Cl <input type="checkbox"/> R <input type="checkbox"/> S <input checked="" type="checkbox"/> X <input type="checkbox"/> Re		

* Temperature taken with IR Gun A. **Required Chain-of-Custody documentation continued internally within lab. Terms



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 29, 2016

Attention: Jay Hurst
Occu-Tec, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2246OCCA.5
Goodfellow 103 Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 23, 2016. These samples represent the final clearance TEM samples for the Goodfellow 103 Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the ten (10) samples taken inside the work area are summarized in Table I. TEM sample analysis printouts are also attached. Please note that the average number of asbestos structures per square millimeter (s/mm^2) is $17.7 s/mm^2$, which is below the specified clearance level of $70 s/mm^2$ (40CFR Part 763).

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

Kevin R. Bean, B.A.
Senior Analyst

SUMMARY OF AHERA TEM RESULTS

TABLE I
Inside Samples

Project Name: Goodfellow 103 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.5

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I026	103-AA-026	NSD	NA	2368	0.0029	BDL (0.0029)*	BDL (17.7)*
I028	103-AA-028	NSD	NA	2280.5	0.0030	BDL (0.0030)*	BDL (17.7)*
I029	103-AA-029	NSD	NA	2248.4	0.0030	BDL (0.0030)*	BDL (17.7)*
I031	103-AA-031	NSD	NA	1630.1	0.0042	BDL (0.0042)*	BDL (17.7)*
I032	103-AA-032	NSD	NA	1614.0	0.0042	BDL (0.0042)*	BDL (17.7)*
I034	103-AA-034	NSD	NA	1606	0.0043	BDL (0.0043)*	BDL (17.7)*
I035	103-AA-035	NSD	NA	1614	0.0042	BDL (0.0042)*	BDL (17.7)*
I033	103-AA-033	NSD	NA	1614	0.0042	BDL (0.0042)*	BDL (17.7)*
Average						0.0038	17.7

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 6
Area Analyzed Per Sample: 0.0564mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

Senior Analyst

Date: 2/29/16



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: <u>OCCU-TEC INC.</u>	Telephone #: <u>816-231-5580</u>	Fax #: <u>816-994-3470</u>
Contact: <u>Jay Hurst</u>	Client Project Number: <u>916029</u>	
Relinquished by: <u>(b) (6)</u>	Date: <u>2-23-16</u>	Time: <u>0850</u>
Written Report To: <u>jayhurst@occutec.com ; jsmith@occutec.com</u>		
Project Name: <u>Goodfellow 103</u>		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour <u>2 Day</u> 4-5 Day Weekend Rush After Hour Rush		

~~For Laboratory Use Only~~

MSE Project #: MSE- 27460CCA.5 Comments: Intact

Samples Received by: (b) (6) Date: 2-24-16 Time: 10:00 AM

Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763

Samples Prepared By: _____ Method: Burdett & Rood

Samples Analyzed By: _____ Date: _____

Client ID Number	Sample Location / Type (D)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
103-AA-013	2 nd - B-13	0757	1121	204	8.03	1638.1
103-AA-014	2 nd - E31	0806	1126	200	8.03	1606.0
103-AA-015	2 nd - F36	0713	1132	199	8.03	1598
103-AA-016	2 nd - G39	0820	1136	196	8.03	1573.9
103-AA-017	2 nd - F33	0826	1139	193	8.03	1549.8
103-AA-018	1 st - H32	0834	1214	220	8.03	1766.6
103-AA-019	1 st - D32	0840	1158	198	8.03	1589.9
103-AA-020	1 st - D36	0905	1202	177	8.03	1421.3
103-AA-021	1 st - H36	0913	1205	172	8.03 8.03	1381.2 1381.2
103-AA-022	1 st - B27	0923	1219	176	8.03	1413.3
103-AA-023	1 st - B21	0935	1222	167	8.03	1341
103-AA-024	1 st - J32	0945	1231	166	8.03	1333
103-AA-025	1 st - F31	0950	1237	167	8.03	1341
103-AA-026	Penthouse 2	1037	1532	295	8.03	2368
103-AA-027	K.H.					

Results Transmitted/Date: _____ Fax/Phone By: _____



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company:	OCCU-TEC INC.	Telephone #:	816-231-5580	Fax #:	816-994-3470
Contact:	Jay Hurst	Client Project Number:	916029		
Relinquished by:	(b) (6)	Date:	2-23-16	Time:	0850
Written Report To:	jayhurst@occutec.com ; jsmith@occutec.com				
Project Name:	Goodfellow 103				
Turn-Around Time: (Circle One)	4 Hour	6-8 Hour(same day)	24 Hour	2-3 Day	4-5 Day
				Weekend Rush	After Hour Rush

MSE Project #: MSE- 2246 OCCA.5 Comments: Intact

Samples Received by: (b) (6) Date: 2-24-16 Time: 10:00 AM

Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763

Samples Prepared By: _____ Method: Burdett & Rood

Samples Analyzed By: _____ Date: _____

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
				Time	Flow	Volume
103-AA-028	Penthouse 2	1110	1554	284	8.03	2280.5
103-AA-029	Penthouse 1	1114	1554	280	8.03	2248.4
103-AA-030	K11					
103-AA-031	Basement East	1420	1743	203	8.03	1630.7
103-AA-032	Basement East	1422	1743	201	8.03	1614.0
103-AA-034	Basement Middle	1428	1748	200	8.03	1606
103-AA-035	Basement Middle	1430	1751	201	8.03	1614
103-AA-033	Basement Middle	1426	1747	201	8.03	1614

Results Transmitted/Date: _____ Fax/Phone By: _____



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E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 29, 2016

Attention: Jay Hurst
Occu-Tec, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2246OCCA.4
Goodfellow 103 Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 24, 2016. These samples represent the TEM samples for the Goodfellow 103 Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the twelve (12) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

Kevin R. Bean, B.A.
TEM Senior Analyst

SUMMARY OF AHERA TEM RESULTS

TABLE I
Inside Samples

Project Name: Goodfellow 103 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I013	103-AA-013	NSD	NA	1638.1	0.0036	BDL (0.0036)*	BDL (15.2)*
I014	103-AA-014	NSD	NA	1606.0	0.0036	BDL (0.0036)*	BDL (15.2)*
I015	103-AA-015	NSD	NA	1598	0.0037	BDL (0.0037)*	BDL (15.2)*
I016	103-AA-016	NSD	NA	1573.9	0.0037	BDL (0.0037)*	BDL (15.2)*
I017	103-AA-017	NSD	NA	1549.8	0.0038	BDL (0.0038)*	BDL (15.2)*
I018	103-AA-018	NSD	NA	1766.6	0.0033	BDL (0.0033)*	BDL (15.2)*
I019	103-AA-019	NSD	NA	1589.9	0.0037	BDL (0.0037)*	BDL (15.2)*
I020	103-AA-020	NSD	NA	1421.3	0.0041	BDL (0.0041)*	BDL (15.2)*
I021	103-AA-021	NSD	NA	1381.2	0.0042	BDL (0.0042)*	BDL (15.2)*
I022	103-AA-022	NSD	NA	1413.3	0.0041	BDL (0.0041)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Senior Analyst: (b) (6)

Date: 2/29/16

SUMMARY OF AHERA TEM RESULTS

TABLE II
Inside Samples

Project Name: Goodfellow 103 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I023	103-AA-023	NSD	NA	1341	0.0044	BDL (0.0044)*	BDL (15.2)*
I024	103-AA-024	NSD	NA	1333	0.0044	BDL (0.0044)*	BDL (15.2)*
I025	103-AA-025	NSD	NA	1341	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Senior Analyst:

(b) (6)

Date:

2/29/16



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TEM AHERA CHAIN OF CUSTODY FORM

Company: <u>OCCU-TEC INC.</u>	Telephone #: <u>816-231-5580</u>	Fax #: <u>816-994-3470</u>
Contact: <u>Jay Hurst</u>	Client Project Number: <u>916029</u>	
Relinquished by: <u>(b) (6)</u>	Date: <u>2-23-16</u>	Time: <u>0850</u>
Written Report To: <u>jayhurst@occutec.com ; jsmith@occutec.com</u>		
Project Name: <u>Goodfellow 103</u>		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour <u>23 Day</u> 4-5 Day Weekend Rush After Hour Rush		

~~XXXXXXXXXXXXXXXXXXXX~~

MSE Project #: MSE-22460CCA.4 Comments: Intact

Samples Received by: (b) (6) Date: 2.24.16 Time: 1000 AM

Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763

Samples Prepared By: (b) (6) Method: Burdett & Rood

Samples Analyzed By: (b) (6) Date: 12/29/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
103-AA-013	2 nd - B-13	0757	1121	204	8.03	1638.1
103-AA-014	2 nd - E31	0806	1126	200	8.03	1606.0
103-AA-015	2 nd - F36	0713	1132	199	8.03	1598
103-AA-016	2 nd - G39	0820	1136	196	8.03	1573.9
103-AA-017	2 nd - F33	0826	1139	193	8.03	1549.8
103-AA-018	1 st - H32	0834	1214	220	8.03	1766.6
103-AA-019	1 st - D32	0840	1158	198	8.03	1589.9
103-AA-020	1 st - D36	0905	1202	177	8.03	1421.3
103-AA-021	1 st - H36	0913	1205	172	8.03	1381.2
103-AA-022	1 st - B27	0923	1219	176	8.03	1413.3
103-AA-023	1 st - B21	0935	1222	167	8.03	1341
103-AA-024	1 st - J32	0945	1231	166	8.03	1333
103-AA-025	1 st - F31	0950	1237	167	8.03	1341
103-AA-026	Penthouse 2	1037	1532	296	8.03	2368
103-AA-027	V.H.					

Results Transmitted/Date: _____ Fax/Phone By: _____



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 29, 2016

Attention: Jay Hurst
Occu-Tec, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2246OCCA.1
Goodfellow 103 Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 24, 2016. These samples represent the TEM samples for the Goodfellow 103 Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow 103 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I001	103-AA-001	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I002	103-AA-002	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I003	103-AA-003	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I004	103-AA-004	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I005	103-AA-005	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I006	103-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I007	103-AA-007	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I008	103-AA-008	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I009	103-AA-009	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I010	103-AA-010	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
 Filter diameter: 25mm
 Effective filter Area: 385mm²
 Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
 Grid Openings Analyzed Per Sample: 7
 Area Analyzed Per Sample: 0.0658mm²
 Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
 NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
 SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
 s/mm² - asbestos structures per square millimeter
 s/cc = asbestos structures per cubic centimeter
 * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
 The analysis was performed according to the TEM Method (40CFR part 763).
 This laboratory is in compliance with the specified method.
 Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 2/29/16

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow 103 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I011	103-AA-011	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director: _____

Date: 2/29/14



McCall and Spero
Environmental, Inc.
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E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC. Telephone #: 816-231-5580 Fax #: 816-994-3470
 Contact: Jay Hurst Client Project Number: 916029
 Relinquished by: (b) (6) Date: 2-23-16 Time: 0850
 Written Report To: jayhurst@occutec.com ; jsmith@occutec.com
 Project Name: Goodfellow 103
 Turn-Around Time: (Circle One) 4 Hour | 6-8 Hour(same day) | 24 Hour | 2-3 Day | 4-5 Day | Weekend Rush | After Hour Rush

[Redacted]

MSE Project #: MSE-02460CCA.1 Comments: Intact
 Samples Received by: (b) (6) Date: 2-24-16 Time: 10:00 AM
 Sample To Be Analyzed by: TEM AHERA / EPA 40 CFR Part 763
 Samples Prepared By: (b) (6) Method: Burdett & Rood
 Samples Analyzed By: [Redacted] Date: 2/24/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
103-AA-001	1 st Floor 1F	0715	1000	165	8.03	1324.95
103-AA-002	1 st Floor J3	0722	1007	165	8.03	1324.95
103-AA-003	1 st Floor F5	0732	1017	165	8.03	1324.95
103-AA-004	1 st Floor B10	0745	1030	165	8.03	1324.95
103-AA-005	2 nd Floor C2	0757	1047	165	8.03	1324.95
103-AA-006	2 nd Floor B6	0800	1045	165	8.03	1324.95
103-AA-007	2 nd Floor G 2.5	0805	1050	165	8.03	1324.95
103-AA-008	2 nd Floor G 6.5	0810	1055	165	8.03	1324.95
103-AA-009	2 nd Floor H-13	0813	1058	165	8.03	1324.95
103-AA-010	2 nd Floor E20	0817	1103	165	8.03	1324.95
103-AA-011	2 nd Floor B-27	0822	1107	165	8.03	1324.95
103-AA-012	Blank	-	-	-	-	-

Results Transmitted/Date: _____ Fax/Phone By: _____

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 103D				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103D-AA-001	1st Floor Column L-38	<15.2	s/mm ²	70 s/mm ²
103D-AA-002	1st Floor Column N-36	<15.2	s/mm ²	70 s/mm ²
103D-AA-003	1st Floor Column L-35.5	<15.2	s/mm ²	70 s/mm ²
103D-AA-004	1st Floor Column N-31	<15.2	s/mm ²	70 s/mm ²
103D-AA-005	2nd Floor Column N-31.5	<15.2	s/mm ²	70 s/mm ²
103D-AA-006	2nd Floor Column N-37	<15.2	s/mm ²	70 s/mm ²
103D-AA-007	2nd Floor Column P-35	<15.2	s/mm ²	70 s/mm ²
103D-AA-008	2nd Floor Column L-34	<15.2	s/mm ²	70 s/mm ²
103D-AA-009	Basement	<15.2	s/mm ²	70 s/mm ²
103D-AA-010	Basement	<15.2	s/mm ²	70 s/mm ²
103D-AA-011	Basement	<15.2	s/mm ²	70 s/mm ²
103D-AA-012	Blank	Not Analyzed		
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103D-PbA-001	1st Floor Column L-38	<3.07	µg/m ³	30 µg/m ³
103D-PbA-002	1st Floor Column N-36	<3.03	µg/m ³	30 µg/m ³
103D-PbA-003	1st Floor Column L-35.5	<3.15	µg/m ³	30 µg/m ³
103D-PbA-004	1st Floor Column N-31	<3.19	µg/m ³	30 µg/m ³
103D-PbA-005	2nd Floor Column N-31.5	<3.17	µg/m ³	30 µg/m ³
103D-PbA-006	2nd Floor Column N-37	<3.31	µg/m ³	30 µg/m ³
103D-PbA-007	2nd Floor Column P-35	<3.27	µg/m ³	30 µg/m ³
103D-PbA-008	2nd Floor Column L-34	<3.31	µg/m ³	30 µg/m ³
103D-PbA-009	Basement	<3.52	µg/m ³	30 µg/m ³
103D-PbA-010	Basement	<2.69	µg/m ³	30 µg/m ³
103D-PbA-011	Basement	<2.69	µg/m ³	30 µg/m ³
103D-PbA-012	Blank	<2.00	µg	30 µg/m ³

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 103D				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103D-PbW-001	2nd Floor Column N-36 Desk Top	<10	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbW-002	2nd Floor Column N-34 Copier Table	<10	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbW-003	2nd Floor Column L-33 Shelf	<10	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbW-004	1st Floor Column N-33 Top of Light	164	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbW-005	1st Floor Column P-34 Window Sill	<10	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbW-006	1st Floor Column L-37 Floor Tile	<10	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbW-007	Blank	<10	μg	200 $\mu\text{g}/\text{ft}^2$
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103D-PbV-001	2nd Floor Column N-36 Carpet	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbV-002	2nd Floor Column N-34 Carpet	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbV-003	2nd Floor Column L-33 Ceiling Tile	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbV-004	1st Floor Column N-33 Ceiling Tile	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbV-005	1st Floor Column P-34 Carpet	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbV-006	1st Floor Column L-37 Ceiling Tile	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103D-PbV-007	Blank	<10	μg	200 $\mu\text{g}/\text{ft}^2$

s/mm² = structures per square millimeter

$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter

$\mu\text{g}/\text{ft}^2$ = micrograms per square foot

(b) (7)(F)



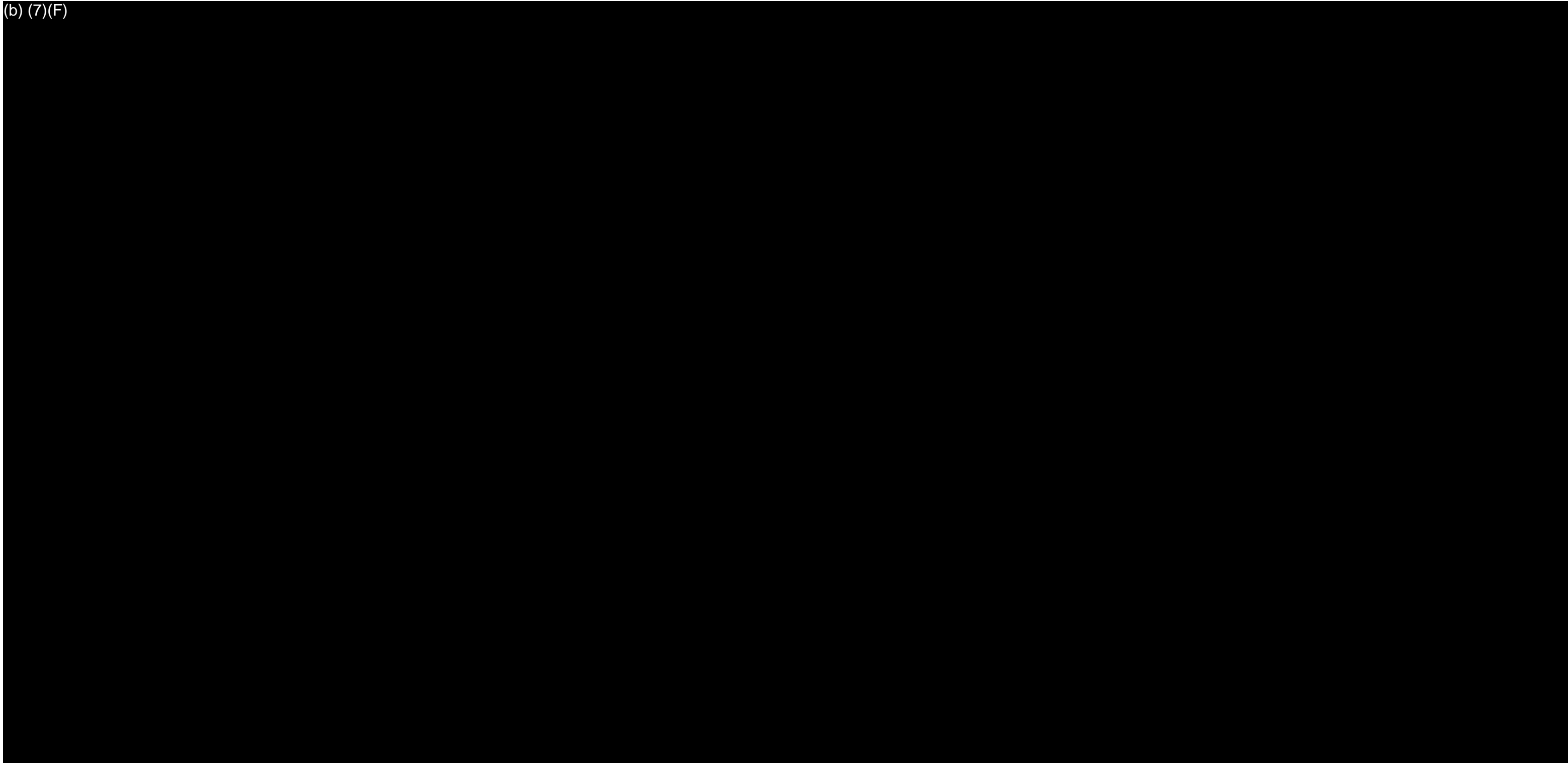
SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0607 (103D) - Basement		DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION		SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025		SCALE:	NTS
		916029	

(b) (7)(F)



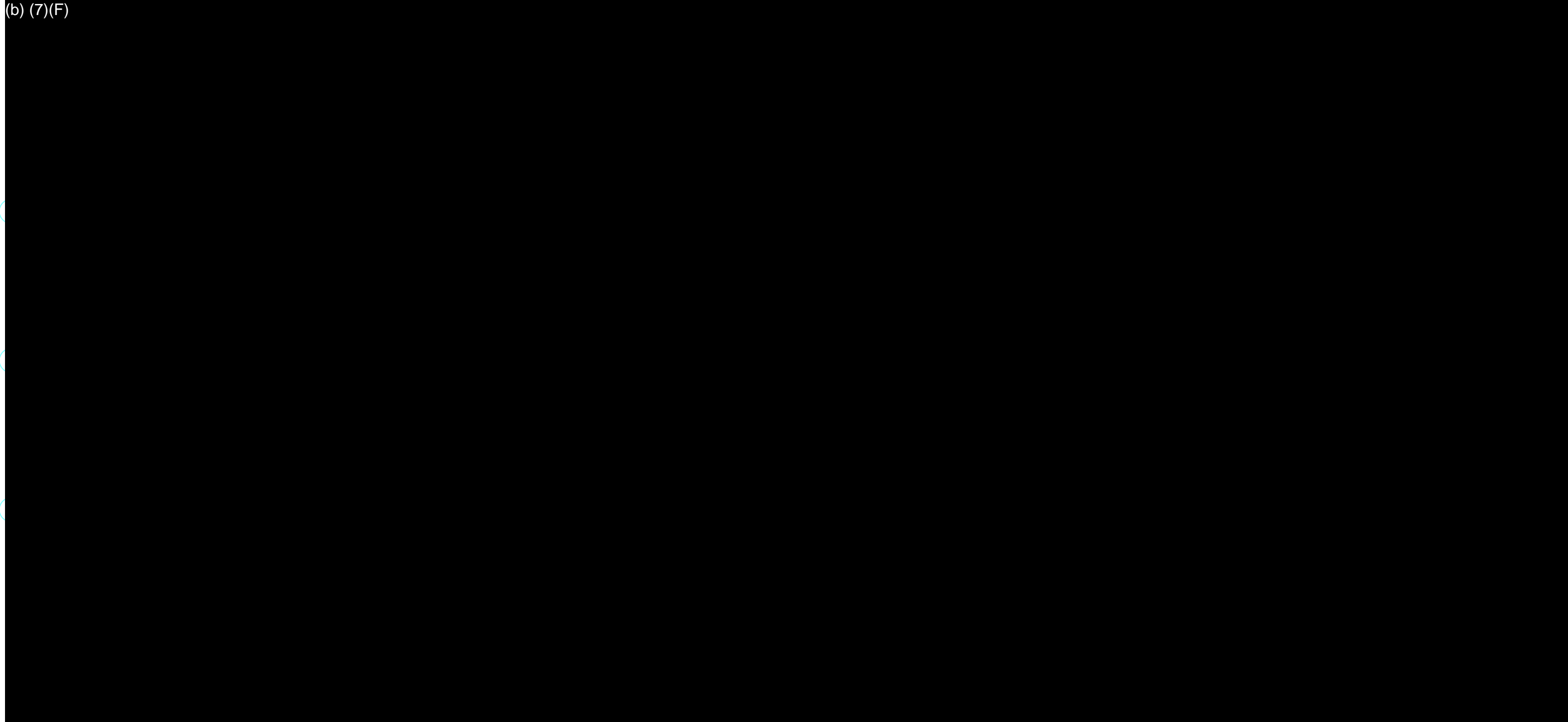
SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE:	GOODFELLOW MO0607 (103D) - 2nd FLOOR	DRAWN by: JWH
CLIENT NAME:	GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16
PROJECT NAME:	GOODFELLOW GS-P-16-16-GZ7025	SCALE: NTS
		916029

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0607 (103D) - 1st FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159452
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Matrix Air
Received 02/22/16
Analyzed 02/23/16
Reported 02/29/16

PO Number:

Attn:
Project: Goodfellow 103D
Location: St Louis, MO
Number: 916029

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume
Parameter	Method		Total	RL*	Conc.	8 Hr TWA
159452-001	103D-PbA-001	L38 1st Floor	02/16/16	178 min	3.67 L/min	653 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.07 µg/m3	<1.14 µg/m3
159452-002	103D-PbA-002	N36 1st Floor	02/16/16	180 min	3.67 L/min	661 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.03 µg/m3	<1.14 µg/m3
<i>Endcaps missing; possible cross-contamination or sample loss.</i>						
159452-003	103D-PbA-003	L35.5 1st Floor	02/16/16	173 min	3.67 L/min	635 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.15 µg/m3	<1.14 µg/m3
159452-004	103D-PbA-004	N31 2nd Floor	02/16/16	171 min	3.67 L/min	628 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.19 µg/m3	<1.14 µg/m3
159452-005	103D-PbA-005	N31.5 2nd Floor	02/16/16	172 min	3.67 L/min	631 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.17 µg/m3	<1.14 µg/m3
159452-006	103D-PbA-006	N37 2nd Floor	02/16/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159452-007	103D-PbA-007	2nd Floor P35	02/16/16	167 min	3.67 L/min	613 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.27 µg/m3	<1.14 µg/m3
159452-008	103D-PbA-008	2nd Floor L34	02/16/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159452-009	103D-PbA-009	Basement	02/16/16	155 min	3.67 L/min	569 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.52 µg/m3	<1.14 µg/m3
159452-010	103D-PbA-010	Basement	02/16/16	203 min	3.67 L/min	745 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<2.69 µg/m3	<1.14 µg/m3
159452-011	103D-PbA-011	Basement	02/16/16	203 min	3.67 L/min	745 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<2.69 µg/m3	<1.14 µg/m3
159452-012	103D-PbA-012	Blank	02/16/16			
Lead	NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: OHE
159452-02/29/16 11:02 AM

(b) (6)

Re
Analyst

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Report Amended. Revised location for samples 103D-PbA002, and 005 per customer request.

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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 www.slabinc.com e-mail: info@slabinc.com



V:159\159452

Submitting Co. OCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@ocutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103 D	Special Instructions [Include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7802) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type¹)	Wiped Area (ft²)	pH / Temp *	Time²		Flow Rate³		Total⁴ Air
						Start	Stop	Start	Stop	
103D-PbA-001	2/11/14		L 38 1st floor			842	1140	3.67	3.67	667.94
103D-PbA-002			L 36 1st floor			850	1150	3.67	3.67	660.6
103D-PbA-003			L 35.5 1st floor			859	1152	3.67	3.67	634.91
103D-PbA-004			N 31 2nd floor			905	1136	3.67	3.67	627.57
103D-PbA-005			P 31.5 2nd floor			918	1210	3.67	3.67	631.24
103D-PbA-006			N 37 2nd floor			951	1234	3.67	3.67	605.55
103D-PbA-007			2nd floor P35			955	1242	3.67	3.67	612.9
103D-PbA-008			2nd floor L 34			1000	1245	3.67	3.67	605.55
103D-PbA-009			Basement			1113 JA HSG	1348 1515JA	3.67	3.67	568.9
103D-PbA-010			Basement			1150	1513	3.67	3.67	745.0

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [(time in min × flow in L/min)]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: <u>Justin Arnold</u> SIGNATURE: (b) (6) DATE / TIME: <u>2-</u>	Relinquished to lab by NAME: <u>Kevin Hefford</u> SIGNATURE: (b) (6) DATE / TIME: <u>2-12-16, 1600</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> HD <input type="checkbox"/> UPS <input type="checkbox"/> DB <input type="checkbox"/> USM WB: <u>1612</u>
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* Temperature taken with IR Gun A. **Required Chain-of-Custody documentation continued internally within lab. Ter...



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WO Label

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 www.slabinc.com e-mail: info@slabinc.com

Submitting Co. OCUC-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@ocucotec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103 D	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103D-P5A-011	2/16/16		Basement	-	-	1150	1513	3.67	3.67	745.0
103D-P5A-012	↓		BLANK	-	-	-	-	-	-	-

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Justin Arnold SIGNATURE (b) (6) DATE / TIME	Relinquished to lab by NAME _____ SIGNATURE _____ DATE / TIME _____	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input checked="" type="checkbox"/> DB WE: HR
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> Cl <input type="checkbox"/> R <input checked="" type="checkbox"/> S <input checked="" type="checkbox"/> X <input type="checkbox"/> Receiv		2-22-16 (b) (6)

* Temperature taken with IR Gun A. **Required Chain-of-Custody documentation continued internally within lab. Terms and



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159409
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Matrix Wipe
Received 02/22/16
Analyzed 02/22/16
Reported 02/29/16

Project Goodfellow-103D
Location St. Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter	Method						
159409-001	103D-PbW001	2nd Floor N36 Desk	02/16/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159409-002	103D-PbW002	2nd Floor N34 Table	02/16/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159409-003	103D-PbW003	2nd Floor L33 Shelf	02/16/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159409-004	103D-PbW004	1st Floor N33 Light	02/16/16				
Lead	EPA 7000B / 3050B			1.00 ft2	164 µg/wipe	164 µg/ft2	10.0 µg/ft2
159409-005	103D-PbW005	1st Floor P34 Win Sill	02/16/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159409-006	103D-PbW006	1st Floor L37 Floor	02/16/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159409-007	103D-PbW007	Blank	02/16/16				
Lead	EPA 7000B / 3050B				<10.0 µg/wipe		10.0 µg/wipe
159409-008	103D-PbV001	2nd Floor N36 Carpet	02/16/16				
Lead	EPA 7000B - Vacwipe / 3050B			0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159409-009	103D-PbV002	2nd Floor N34 Carpet	02/16/16				
Lead	EPA 7000B - Vacwipe / 3050B			0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159409-010	103D-PbV003	2nd Floor L33 CT	02/16/16				
Lead	EPA 7000B - Vacwipe / 3050B			0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159409-011	103D-PbV004	1st Floor N33 CT	02/16/16				
Lead	EPA 7000B - Vacwipe / 3050B			0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159409-012	103D-PbV005	1st Floor P34 Carpet	02/16/16				
Lead	EPA 7000B - Vacwipe / 3050B			0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159409-013	103D-PbV006	1st Floor L37 Ceil. Tile	02/16/16				
Lead	EPA 7000B - Vacwipe / 3050B			0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159409-014	103D-PbV007	Blank	02/16/16				

Report Amended. Revised location for sample 103D-PbV005 per customer request.

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159409
-----------------	--------

Matrix Wipe
Received 02/22/16
Analyzed 02/22/16
Reported 02/29/16

Project Goodfellow-103D
Location St. Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Total	Conc.	RL*
Parameter		Method	Area			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 µg/wipe

Analyst MHB
159409-02/29/16 10:59 AM

(b) (6)

Reviewed By **Derek Jackson**
Analyst

Report Amended. Revised location for sample 103D-PbV005 per customer request.

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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 www.slabin.com e-mail: info@slabin.com

159409



V:159\159409

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutech.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103D	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103D-PBW-001	2/16/16	10:15	2 nd floor N36 Desk	1sf						
103D-PBW-002		10:20	2 nd floor N34 Table	1sf						
103D-PBW-003		10:25	2 nd floor L33 shelf	1sf						
103D-PBW-004		10:35	1 st floor N33 Light	1sf						
103D-PBW-005		10:40	1 st floor P34 Window Sill	1sf						
103D-PBW-006		10:45	1 st floor L37 floor	1sf						
103D-PBW-007			BLANK	-						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by TJustin Arnold SIGNATURE (b) (6) DATE / TIME 2-16-16	Relinquished to lab by NAME Kevin Hubbard SIGNATURE (b) (6) DATE / TIME 2-18-16	2-22-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 162
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* Temperature taken with IR Gun A. **Required Chain-of-Custody documentation continued internally within lab. Terms and conditions apply.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabin.com e-mail: info@slabin.com

WO Label

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103D	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103D-PbV-001	2/16/14		2nd Floor N36 Carpet	100cm ²						
103D-PbV-002			2nd Floor N34 Carpet							
103D-PbV-003			2nd Floor JA L33 CT							
103D-PbV-004			1st Floor N33 CT							
103D-PbV-005			1st Floor P34 Window							
103D-PbV-006			1st Floor L37 Ceiling Tile							
103A-PbV-007			BLANK	-						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Justin Arnold SIGNATURE (b) (6) DATE / TIME 2-17-14	Relinquished to lab by NAME Kevin Hecker SIGNATURE (b) (6) DATE / TIME 2-19-14 11:00	2-22-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 1612
---	---	---------------------------	---

* Temperature taken with IR Gun A. **Required Chain-of-Custody documentation continued internally within lab. Term



**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 25, 2016

Attention: Jay Hurst
OCCU-TEC INC.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2226OCCA.1
Goodfellow Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 22, 2016. These samples represent the TEM samples for the Goodfellow Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

Kevin R. Bean, B.A.
Senior Analyst

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I001	103D-AA-001	NSD	NA	1437.4	0.0041	BDL (0.0041)*	BDL (15.2)*
I002	103D-AA-002	NSD	NA	1445.4	0.0040	BDL (0.0040)*	BDL (15.2)*
I003	103D-AA-003	NSD	NA	1392.7	0.0042	BDL (0.0042)*	BDL (15.2)*
I004	103D-AA-004	NSD	NA	1365.1	0.0043	BDL (0.0043)*	BDL (15.2)*
I005	103D-AA-005	NSD	NA	1381.1	0.0042	BDL (0.0042)*	BDL (15.2)*
I006	103D-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I007	103D-AA-007	NSD	NA	1341.01	0.0044	BDL (0.0044)*	BDL (15.2)*
I008	103D-AA-008	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I009	103D-AA-009	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I010	103D-AA-010	NSD	NA	1630.1	0.0036	BDL (0.0036)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Senior Analyst: (b) (6)

Date: 2/25/16

McCall and Spero Environmental, Inc.

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I011	103D-AA-011	NSD	NA	1630.1	0.0036	BDL (0.0036)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

Senior Analyst:

Date: 2/25/16



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC. Telephone #: 816-231-5580 Fax #: 816-994-3470
 Contact: Jay Hurst Client Project Number: 916029
 Relinquished by: (b) (6) Date: 2-17-16 Time: 1700
 Written Report To: jayhurst@occutec.com ; jsmith@occutec.com
 Project Name: Goodfellow
 Turn-Around Time: (Circle One) 4 Hour | 6-8 Hour(same day) | 24 Hour | 2-5 Day | 4-5 Day | Weekend Rush | After Hour Rush

~~For Laboratory Use Only~~

MSE Project #: MSE-77760CCA.1 Comments: Intact
 Samples Received by: (b) (6) Date: 2-22-16 Time: 9:00 AM
 Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763
 Samples Prepared By: (b) (6) Method: Burdett & Rood
 Samples Analyzed By: (b) (6) Date: 2/22/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
1030-AA-001	L3T 1st FLr	0842	1141	179	8.03	1437.4
1030-AA-002	1st Floor N36	0850	1150	180		1445.4
1030-AA-003	1st L3S.S	0859	1152	173		1392.7
1030-AA-004	2nd N31	0905	1156	171		1365.1
1030-AA-005	2nd N31.5	0918	1210	172		1381.1
1030-AA-006	2nd N37	0951	1236	165		1324.95
1030-AA-007	2nd P35	0955	1242	167		1341.01
1030-AA-008	Basement	1000	1245	165		1324.95
1030-AA-009	Basement	1113	1345	165		1324.95
1030-AA-010	Basement	1150	1513	203		1630.1
1030-AA-011	Blank Kh Basement	1150	1513	203		1630.1
1030-AA-012	Blank	-	-			

Results Transmitted/Date: _____ Fax/Phone By: _____

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 103E				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103E-AA-001	1st Floor Column N-27	<15.2	s/mm ²	70 s/mm ²
103E-AA-002	1st Floor Column L-28	<15.2	s/mm ²	70 s/mm ²
103E-AA-003	2nd Floor Column N-28	<15.2	s/mm ²	70 s/mm ²
103E-AA-004	2nd Floor Column L-27	<15.2	s/mm ²	70 s/mm ²
103E-AA-005	1st Floor Column N-21	<15.2	s/mm ²	70 s/mm ²
103E-AA-006	1st Floor Column P-21	<15.2	s/mm ²	70 s/mm ²
103E-AA-007	2nd Floor Column P-20.5	<15.2	s/mm ²	70 s/mm ²
103E-AA-008	Basement Column N-24	<15.2	s/mm ²	70 s/mm ²
103E-AA-009	Basement Column P-24	<15.2	s/mm ²	70 s/mm ²
103E-AA-010	Basement Column P-23	<15.2	s/mm ²	70 s/mm ²
103E-AA-011	Basement West Tunnel	<15.2	s/mm ²	70 s/mm ²
103E-AA-012	Blank	Not Analyzed		
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103E-PbA-001	1st Floor Column N-27	<3.41	µg/m ³	30 µg/m ³
103E-PbA-002	1st Floor Column L-28	<3.08	µg/m ³	30 µg/m ³
103E-PbA-003	2nd Floor Column N-28	<3.98	µg/m ³	30 µg/m ³
103E-PbA-004	2nd Floor Column L-27	<4.13	µg/m ³	30 µg/m ³
103E-PbA-005	1st Floor Column N-21	<3.98	µg/m ³	30 µg/m ³
103E-PbA-006	1st Floor Column P-21	<4.13	µg/m ³	30 µg/m ³
103E-PbA-007	2nd Floor Column P-20.5	<4.15	µg/m ³	30 µg/m ³
103E-PbA-008	Basement Column N-24	<3.93	µg/m ³	30 µg/m ³
103E-PbA-009	Basement Column P-24	<3.95	µg/m ³	30 µg/m ³
103E-PbA-010	Basement Column P-23	<3.91	µg/m ³	30 µg/m ³
103E-PbA-011	Basement West Tunnel	<3.95	µg/m ³	30 µg/m ³
103E-PbA-012	Blank	<2.00	µg	30 µg/m ³

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

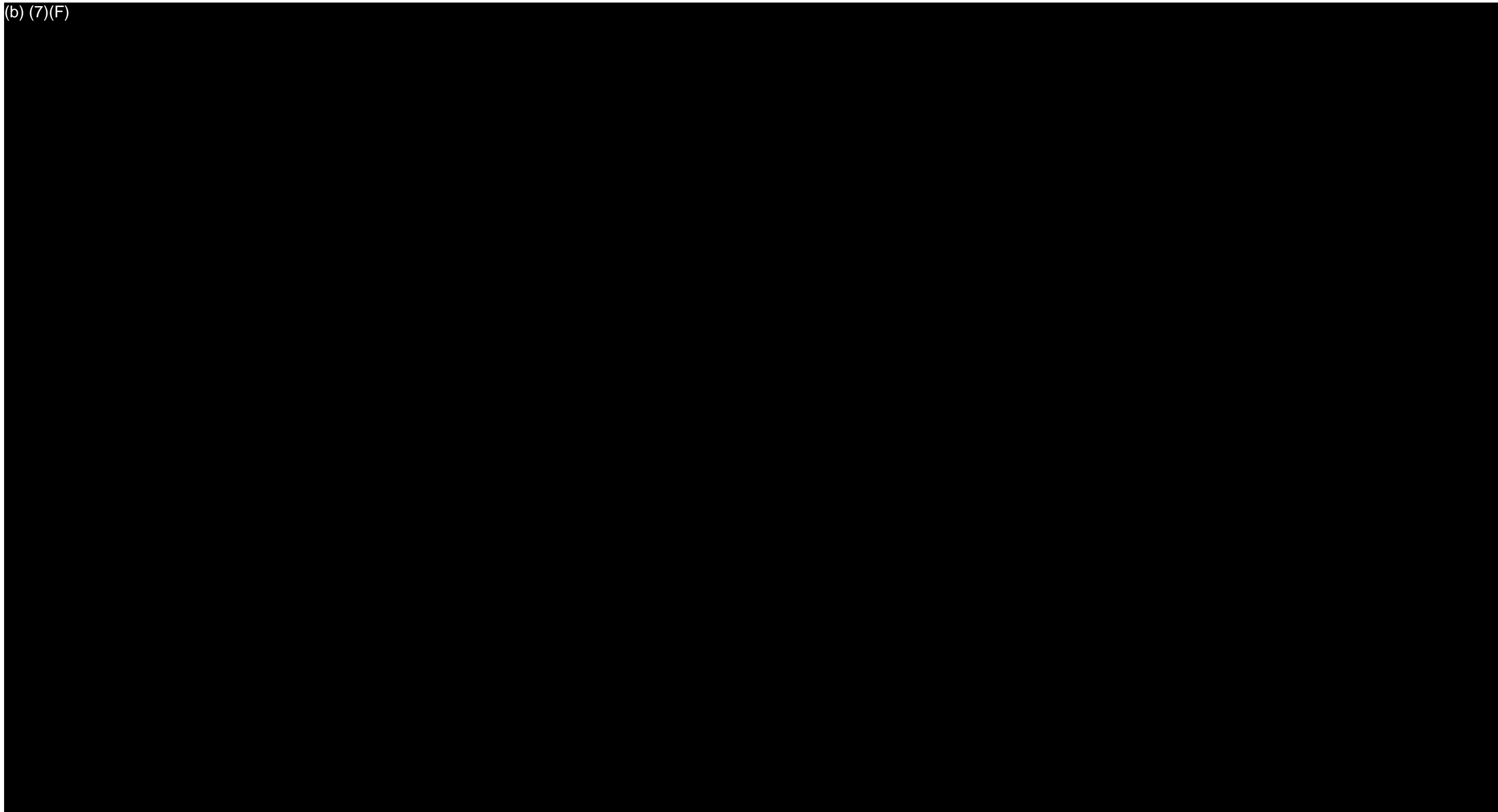
µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 103E				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103E-PbW-001	2nd Floor - Column P-21 - Floor Tile	<10	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbW-002	1st Floor - Column N-21 - Floor Tile	<10	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbW-003	1st Floor - Column P-21.5 - Floor Tile	<10	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbW-004	1st Floor - Column N-27.5 - Top of Duct	251	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbW-005	2nd Floor - Column L-27 - Closet Floor	111	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbW-006	Basement - Tunnel Floor	259	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbW-007	Blank	<10	μg	200 $\mu\text{g}/\text{ft}^2$
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103E-PbV-001	2nd Floor - Column P-20 - Top of Ceiling Tile	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbV-002	1st Floor - Column N-L -20.5 - Top of Water Heater	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbV-003	1st Floor - Column L-N-21 - Top of Ceiling Tile	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbV-004	1st Floor - Column L-28 - Top of Mechanical Duct	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbV-005	2nd Floor - Column L-28 - Stair Tread	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbV-006	Basement - Column N-24 - Concrete Floor	1680	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbV-007	Basement - Column P-23 - Concrete Stair to Tunnel	<92.9	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbV-008	Basement - Column P 23 - Concrete Floor in Tunnel	1090	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
103E-PbV-009	Blank	<10	μg	200 $\mu\text{g}/\text{ft}^2$

s/mm^2 = structures per square millimeter
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter
 $\mu\text{g}/\text{ft}^2$ = micrograms per square foot

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0608 (103E) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE:	NTS
	916029	

(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE:
GOODFELLOW MO0608 (103E) - 2nd FLOOR

CLIENT NAME:
GENERAL SERVICES ADMINISTRATION

PROJECT NAME:
GOODFELLOW GS-P-16-16-GZ7025

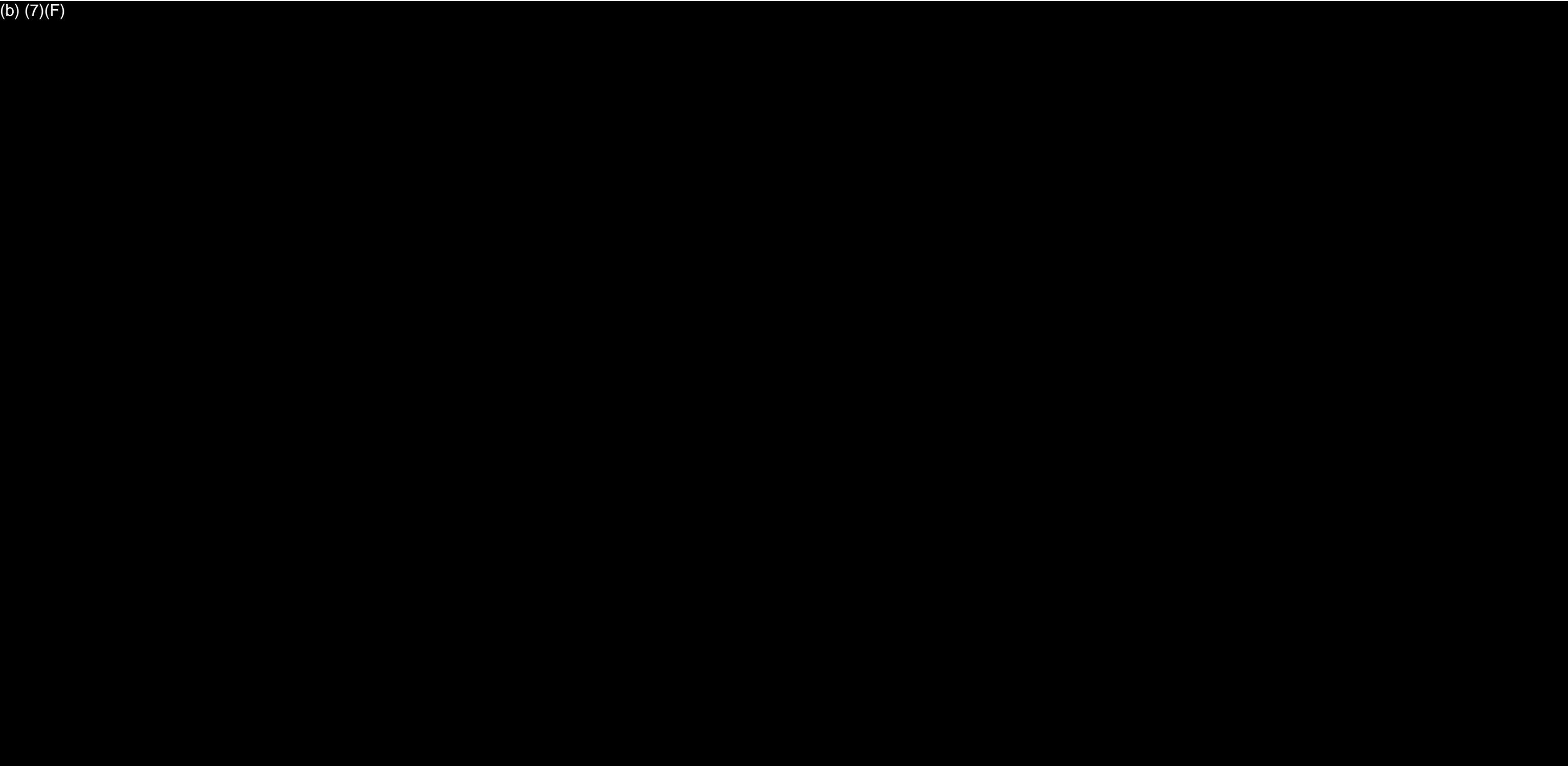
DRAWN by: JWH

SUB. DATE: 03/04/16

SCALE: NTS

916029

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0608 (103E) - 1st FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	160223
-----------------	--------

Matrix Wipe
Received 02/29/16
Analyzed 02/29/16
Reported 03/01/16

Project Goodfellow 103E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
160223-001	103E-PbW-01	2nd FI Stair FI Tile	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
160223-002	103E-PbW-02	1st FI Jan Closet FI	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
160223-003	103E-PbW-03	1st FI N Entrance FI	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
160223-004	103E-PbW-04	1st FI S Mech Duct	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	251 µg/wipe	251 µg/ft2	10.0 µg/ft2
160223-005	103E-PbW-05	2nd FI Jan Closet FI	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	111 µg/wipe	111 µg/ft2	10.0 µg/ft2
160223-006	103E-PbW-06	Bsmt FI Concrete	02/25/16			
Lead		EPA 7000B / 3050B	1.00 ft2	259 µg/wipe	259 µg/ft2	10.0 µg/ft2
160223-007	103E-PbW-07	Blank	02/25/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 µg/wipe

Analyst IH
160223-03/01/16 09:05 AM

(b) (6)

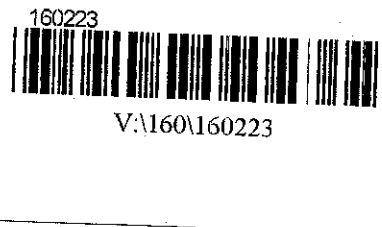
Reviewed By **Marti Baird**
Analyst

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com



Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103E	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn-Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input checked="" type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103E-PbW20	2-25-16	1600	2nd Fl. Stair Floor Tile	1 SF						
-02			1st Fl Jan Closet Floor Tile	1 SF						
-03			1st Fl NE Entrance Floor Tile	1 SF						
-04			1st Fl S Mech-Duct	1 SF						
-05			2nd Fl Jan Closet-Floor	1 SF						
-06			Bsmnt - Floor-Concrete	1 SF						
-07			Blank	—						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-26-16</u>	Relinquished to lab by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-26-16 1806</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: _____
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> Cl <input type="checkbox"/> R <input type="checkbox"/> S <input checked="" type="checkbox"/> X		<input checked="" type="checkbox"/> Receive a physical copy of report.

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 160222

Matrix Wipe
Received 02/29/16
Analyzed 02/29/16
Reported 03/01/16

Project Goodfellow 103E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter	Method	Area	Total	Conc.	RL*	
160222-001	103-PbV-01	2nd FL W Ceiling Tile	02/25/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
160222-002	103-PbV-02	1st FL Jan Closet Water	02/25/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
160222-003	103-PbV-03	1st FL Ceiling Tile	02/25/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
160222-004	103-PbV-04	1st FL Ceiling Tile	02/25/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
160222-005	103-PbV-05	2nd FL Stair Tread	02/25/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
160222-006	103-PbV-06	Bsmt Floor Concrete	02/25/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	181 µg/wipe	1680 µg/ft2	92.9 µg/ft2	
160222-007	103-PbV-07	Bsmt Stair To Tunnel	02/25/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
160222-008	103-PbV-08	Bsmt In Tunnel	02/25/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	118 µg/wipe	1090 µg/ft2	92.9 µg/ft2	
160222-009	103-PbV-09	Blank	02/25/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
160222-010	103-PbV-10	Blank	02/25/16			
Lead	EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 µg/wipe	

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	160222
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Matrix Wipe
Received 02/29/16
Analyzed 02/29/16
Reported 03/01/16

Project Goodfellow 103E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Total	Conc.	RL*
Parameter		Method	Area			

Analyst IH
160222-03/01/16 10:33 AM

(b) (6)

Reviewed By **Marti Baird**
Analyst

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

160222



V\160\160222

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103E	Special Instructions [Include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input checked="" type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>
		FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED: _____		

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103E-PN-01	2-25-16	1600	2nd Fl. W. Ceiling Tile	100cm ²						
-02			1st Fl Jan Closet ^{water} heater	100cm ²						
-03			1st Fl Ceiling Tile	100cm ²						
-04			1st Fl Ceiling Tile	100cm ²						
-05			2nd Fl Stair Tread	100cm ²						
-06			Bsmnt - Floor Concrete	100cm ²						
-07			Bsmnt - Stair to tunnel	100cm ²						Sample is OK
-08			Bsmnt - in tunnel	100cm²	W/D					QS
-09			Blank							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by _____ NAME _____ SIGNATURE _____ DATE / TIME _____	Relinquished to lab by _____ NAME _____ SIGNATURE _____ DATE / TIME _____	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WE: 218
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* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within lab. Terms and



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 160220

Matrix: Air
Received: 02/29/16
Analyzed: 02/29/16
Reported: 03/01/16

Attn:
Project: Goodfellow Federal Center 103E
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
160220-001	103E-PbA-01	1st FI S Mech	02/25/16	176 min	3.34 L/min	588 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.41 µg/m3	<1.25 µg/m3
160220-002	103E-PbA-02	1st S Stairwell	02/25/16	179 min	3.63 L/min	650 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.08 µg/m3	<1.15 µg/m3
160220-003	103E-PbA-03	2nd S Top Of Stairs	02/25/16	165 min	3.05 L/min	503 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.98 µg/m3	<1.37 µg/m3
160220-004	103E-PbA-04	2nd Bridge To 103	02/25/16	159 min	3.05 L/min	485 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.13 µg/m3	<1.37 µg/m3
160220-005	103E-PbA-05	1st N By RR	02/25/16	165 min	3.05 L/min	503 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.98 µg/m3	<1.37 µg/m3
160220-006	103E-PbA-06	1st Entrance	02/25/16	159 min	3.05 L/min	485 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.13 µg/m3	<1.37 µg/m3
160220-007	103E-PbA-07	2nd N Stairwell	02/25/16	158 min	3.05 L/min	482 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.15 µg/m3	<1.37 µg/m3
160220-008	103E-PbA-08	Bsmt Middle	02/25/16	167 min	3.05 L/min	509 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.93 µg/m3	<1.37 µg/m3
160220-009	103E-PbA-09	Bsmt Middle	02/25/16	166 min	3.05 L/min	506 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.95 µg/m3	<1.37 µg/m3
160220-010	103E-PbA-10	Bsmt W Tunnel 95	02/25/16	168 min	3.05 L/min	512 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.91 µg/m3	<1.37 µg/m3
160220-011	103E-PbA-11	Bsmt W Tunnel	02/25/16	166 min	3.05 L/min	506 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.95 µg/m3	<1.37 µg/m3
160220-012	103E-PbA-12	Blank	02/25/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH
160220-03/01/16 10:44 AM

(b) (6)

Reviewed By: **Marti Baird**
Analyst

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com



V:160160220

Submitting Co. OCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 103 E	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Micro-Vac Dust	Asbestos Air / Fiber Counts	Asbestos Bulk / Asb ID	Metals-Total Conc.
		<input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield)	<input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals
		Miscellaneous Tests	FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:	Metals-Extract
		<input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam		<input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics)
				Others
				<input type="checkbox"/>

Sample #	Date Sampled	Time Sampled	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103E-PA-01	2-25-16	8:30	1st Fl - S Mech			8:30	11:26	3.63	3.05	587.84
-02			1st - S Stairwell			8:31	11:30	3.63	3.05	649.77
-03			2nd - S Top of Stairs			8:48	11:33	3.05	3.05	598.95
-04			2nd - Bridge to 103			8:56	11:35	3.05	3.05	577.17
-05			1st - N by RR			9:11	11:56	3.05	3.05	598.95
-06			1st - Entrance			9:16	11:55	3.05	3.05	484.95
-07			2nd - N Stairwell			9:23	12:01	3.05	3.05	481.9
-08			Bsmt - Middle			8:14	11:01	3.05	3.05	509.35
-09			Bsmt - Middle			8:18	11:04	3.05	3.05	506.3
-10			Bsmt - W Stairwell	95		8:20	11:08	3.05	3.05	512.4
-11			Bsmt - W Tunnel			8:24	11:10	3.05	3.05	506.3
-12			Blank			-	-	-	-	

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-25-16</u>	Relinquished to lab by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-26-16</u>	<u>2-29-16</u> <u>(b) (6)</u>	Sample Disposal <small>If samples over red, weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB# <u>2187</u>
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: March 2, 2016

Attention: Jay Hurst
OCCU-TEC, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2296OCCA.4
Goodfellow - 103E Project
OCC#916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 29, 2016. These samples represent the TEM samples for the Goodfellow - 103E Project - OCC#916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - 103E Project - OCC#916029

McCall and Spero Project No: MSE-2296OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	103E-AA-01	NSD	NA	1441	0.0041	BDL (0.0041)*	BDL (15.2)*
I02	103E-AA-02	NSD	NA	1344.20	0.0044	BDL (0.0044)*	BDL (15.2)*
I03	103E-AA-03	NSD	NA	1352.40	0.0043	BDL (0.0043)*	BDL (15.2)*
I04	103E-AA-04	NSD	NA	1296.10	0.0045	BDL (0.0045)*	BDL (15.2)*
I05	103E-AA-05	NSD	NA	1320.20	0.0044	BDL (0.0044)*	BDL (15.2)*
I06	103E-AA-06	NSD	NA	1280	0.0046	BDL (0.0046)*	BDL (15.2)*
I07	103E-AA-07	NSD	NA	1296.10	0.0045	BDL (0.0045)*	BDL (15.2)*
I08	103E-AA-08	NSD	NA	1344.40	0.0044	BDL (0.0044)*	BDL (15.2)*
I09	103E-AA-09	NSD	NA	1328.30	0.0044	BDL (0.0044)*	BDL (15.2)*
I10	103E-AA-10	NSD	NA	1336.30	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:
The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director: (b) (6) Date: 3/2/16

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow - 103E Project - OCC#916029

McCall and Spero Project No: MSE-2296OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I11	103E-AA-11	NSD	NA	1336.30	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:
The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director: (b) (6) Date: 3/2/16



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: <u>OCCU-TEC INC.</u>	Telephone #: <u>816-231-5580</u>	Fax #: <u>816-994-3470</u>
Contact: <u>Jay Hurst</u>	Client Project Number: <u>916029</u>	
Relinquished by: <u>Jeff Smith</u>	Date: <u>2-26-16</u>	Time: <u>1800</u>
Written Report To: <u>jayhurst@occutec.com ; jsmith@occutec.com</u>		
Project Name: <u>Goodfellow - 103E</u>		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour (same day) 24 Hour <u>2-3 Day</u> 4-5 Day Weekend Rush After Hour Rush		

MSE Project #: MSE-229100CAA Comments: Intact

Samples Received by: (b) (6) Date: 02/22/16 Time: 10:05 AM

Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763

Samples Prepared By: (b) (6) Method: Burdett & Rood

Samples Analyzed By: (b) (6) Date: 3/1/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	- Stop Time	Total Time x Liters/Minute = Volume		
103E-AA-01	1st - S. Mech	8:28	11:27	179	8.05	1441
-02	1st S Stairwell	8:38	11:30	172	7.82	1344.2
-03	2nd S Top of Stair	8:46	11:34	168	8.05	1352.4
-04	2nd S Bridge to 103	8:54	11:35	161	8.05	1296.1
-05	1st - N by RR	9:09	11:53	164	8.05	1320.2
-06	1st - by Entrance	9:15	11:54	159	8.05	1280
-07	2nd Fl - N Stairwell	9:21	12:02	161	8.05	1296.1
-08	Bsmt - Middle	8:15	11:02	167	8.05	1344.4
-09	Bsmt - Middle	8:19	11:04	165	8.05	1328.3
-10	Bsmt - w Tunnel	8:22	11:08	166	8.05	1336.3
-11	Bsmt - w Tunnel	8:24	11:10	166	8.05	1336.3
-12	Blank	—	—	—	—	—

Results Transmitted/Date: _____ Fax/Phone By: _____

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 103F				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103F-AA-001	1st Floor Column F-09	<15.2	s/mm ²	70 s/mm ²
103F-AA-002	1st Floor Column B-08	<15.2	s/mm ²	70 s/mm ²
103F-AA-003	1st Floor Column C-12	<15.2	s/mm ²	70 s/mm ²
103F-AA-004	1st Floor Column F-04.5	<15.2	s/mm ²	70 s/mm ²
103F-AA-005	Basement East	<15.2	s/mm ²	70 s/mm ²
103F-AA-006	Basement Center	<15.2	s/mm ²	70 s/mm ²
103F-AA-007	Tunnel	<15.2	s/mm ²	70 s/mm ²
103F-AA-008	Basement West	<15.2	s/mm ²	70 s/mm ²
103F-AA-009	Blank	Not Analyzed		
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103F-PbA-001	1st Floor Column F-09	<3.34	µg/m ³	30 µg/m ³
103F-PbA-002	1st Floor Column B-08	<3.34	µg/m ³	30 µg/m ³
103F-PbA-003	1st Floor Column C-12	<3.34	µg/m ³	30 µg/m ³
103F-PbA-004	1st Floor Column F-04.5	<3.30	µg/m ³	30 µg/m ³
103F-PbA-005	Basement East	<3.34	µg/m ³	30 µg/m ³
103F-PbA-006	Basement Center	<3.34	µg/m ³	30 µg/m ³
103F-PbA-007	Tunnel	<3.34	µg/m ³	30 µg/m ³
103F-PbA-008	Basement West	<3.34	µg/m ³	30 µg/m ³
103F-PbA-009	Blank	<2.00	µg	30 µg/m ³

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 103F				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103F-PbW-001	Basement Fiberglass Plastic Jacket Pipe Elbow	759	µg/ft ²	200 µg/ft ²
103F-PbW-002	Basement Support Bar	220	µg/ft ²	200 µg/ft ²
103F-PbW-003	Basement Top of Non-Insulated Pipe	323	µg/ft ²	200 µg/ft ²
103F-PbW-004	1st Floor Column E-08 Top of Shelf	<10	µg/ft ²	200 µg/ft ²
103F-PbW-005	1st Floor Column D-08 Condiment Wall Top	<10	µg/ft ²	200 µg/ft ²
103F-PbW-006	1st floor Column B-08 Window Sill	<10	µg/ft ²	200 µg/ft ²
103F-PbW-007	Blank	<10	µg	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
103F-PbV-001	Basement Concrete Floor	5110	µg/ft ²	200 µg/ft ²
103F-PbV-002	Tunnel Floor Concrete Floor	1120	µg/ft ²	200 µg/ft ²
103F-PbV-003	Basement Top of Pipe Insulation	920	µg/ft ²	200 µg/ft ²
103F-PbV-004	1st Floor Column E-08 Top of Brick Shelf	<92.9	µg/ft ²	200 µg/ft ²
103F-PbV-005	1st Floor Column B-10 Brick Ledge	<92.9	µg/ft ²	200 µg/ft ²
103F-PbV-006	1st Floor Column E-11 Carpet	<92.9	µg/ft ²	200 µg/ft ²
103F-PbV-007	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

BASEMENT PLANS NOT PROVIDED TO OCCU-TEC

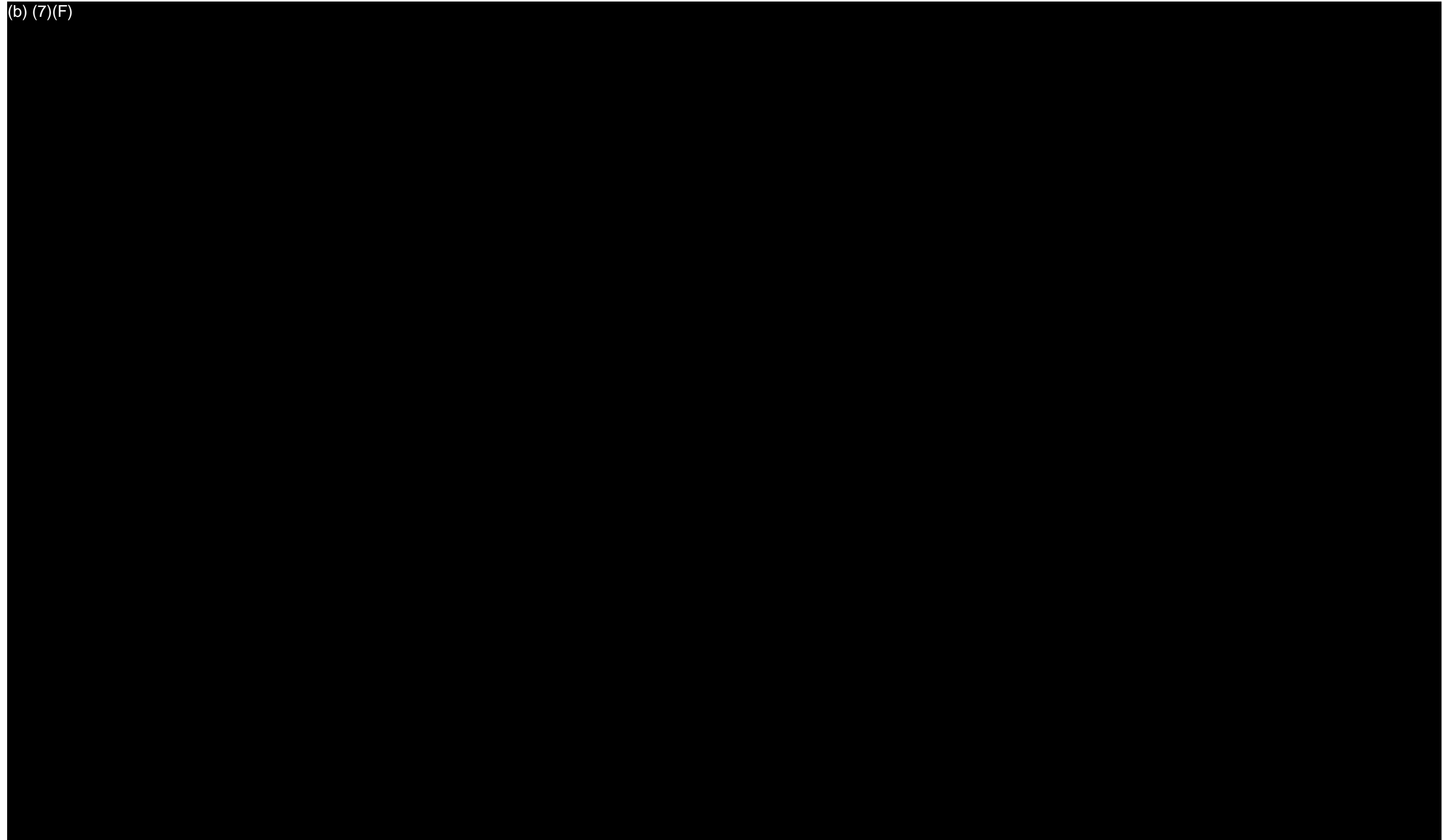
SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0616 (103F) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE:	NTS
	916029	

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0616 (103F) - 1st FLOOR		DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION		SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025		SCALE:	NTS
		916029	



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159447
-----------------	--------

Matrix: Air
Received: 02/22/16
Analyzed: 02/23/16
Reported: 02/24/16

Attn:
Project: Goodfellow 103F
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159447-001	103F-PbA-001	Column F09 1st Floor	02/16/16	165 min	3.63 L/min	599 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159447-002	103F-PbA-002	Column B08 1st Floor	02/16/16	165 min	3.63 L/min	599 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159447-003	103F-PbA-003	Column C12 1st Floor	02/16/16	165 min	3.63 L/min	599 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159447-004	103F-PbA-004	Column F4.5 1st Floor	02/16/16	167 min	3.63 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.30 µg/m3	<1.15 µg/m3
159447-005	103F-PbA-005	Basement	02/16/16	165 min	3.63 L/min	599 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159447-006	103F-PbA-006	Basement	02/16/16	165 min	3.63 L/min	599 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159447-007	103F-PbA-007	Tunnel	02/16/16	165 min	3.63 L/min	599 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159447-008	103F-PbA-008	Basement	02/16/16	165 min	3.63 L/min	599 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159447-009	103F-PbA-009	Blank	02/16/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		
159447-010	103F-PbA-010		02/16/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH
159447-02/24/16 09:13 AM

(b) (6)

Reviewed By: **Abisola Kasali**
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

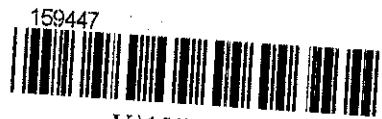
Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com



V:159\159447

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutech.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103 F	Special Instructions [Include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day † <input type="checkbox"/> 1 business day † <input type="checkbox"/> 2 business days † <input checked="" type="checkbox"/> 3 business days † <input type="checkbox"/> 5 business days † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead † <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled*	Time Sampled*	Sample Identification (Employee, SSN, Bldg, Material, Type)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103F-PbA-001	2-16-14		Column F09 1st floor	-	-	1320	1605	3.63	3.63	598.95
103F-PbA-002			Column B08 1st floor	-	-	1328	1613	3.63	3.63	598.95
103F-PbA-003			Column C12 1st floor	-	-	1337	1622	3.63	3.63	598.95
103F-PbA-004			Column F 4.5 1st floor	-	-	1340	1627	3.63	3.63	598.95
103F-PbA-005			Basement	-	-	1430	1715	3.63	3.63	598.95
103F-PbA-006			Basement	-	-	1434	1719	3.63	3.63	598.95
103F-PbA-007			Tunnel	-	-	1440	1725	3.63	3.63	598.95
103F-PbA-008			Basement	-	-	1447	1732	3.63	3.63	598.95
103F-PbA-009	2-16-14		BLANK	-	-	-	-	-	-	-

*Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Justin Arnold (b) (6) DATE / TIME 2-16-14 19:00	Relinquished to lab by NAME Kevin H. [redacted] SIGNATURE (b) (6) DATE / TIME 2-19, 1600	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2035
--	--	--

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Term

Work Order Maintenance Worksheet

Property of: Schneider Laboratories, Inc. CA Dept. - DO NOT DESTROY ORIGINALS

Client /Acct # 0004 WO / Invoice # 159447 PM Init. _____

WOM Initiated By SLI: _____ SLI Staff/Date/Time: fe 2-22-16

<input type="checkbox"/> No COC submitted	<input type="checkbox"/> No TAT given	<input type="checkbox"/> No Test(s) selected	<input type="checkbox"/> No Sample Type given
<input type="checkbox"/> Sample(s) not rec'd	<input checked="" type="checkbox"/> Extra sample rec'd	<input type="checkbox"/> QNS sample(s)	<input type="checkbox"/> Sample(s) not preserved
<input type="checkbox"/> Wrong media used	<input type="checkbox"/> TEM type unspecified		<input type="checkbox"/> Sample(s) not as listed on COC

Other: #103 E-PbA-010

1st Contact Attempt: Ben V-Ment 2/22/16 12:42pm SLI Staff: [Signature]

Notes: Call Adv will add & run extra sample. Adv to call back w/ description of me about person sample

2nd Contact Attempt: _____ Contact Name _____ Date _____ Time _____ SLI Staff: _____

Notes: _____

Client Returned Call _____ Contact Name _____ Date _____ Time _____ SLI Staff: _____

Client's Instructions: _____ Contact Name _____ Date _____ Time _____ SLI Staff: _____

WOM Initiated By Client: _____

CHECK ONE >>> described below see attached fax/e-mail _____ Contact Name _____ Date _____ Time _____ SLI Staff: _____

Client Changing COC Information other _____

Client Making Special Request _____

Client Requesting TAT change _____

Original Due Date _____ Original Due Time _____

New Turn-Around Time is: (circle one) 2hr 6-8hr 24hr 48hr 3day 5day

Notes: _____

An AMENDED REPORT must be issued to the client

Manager: (b) (6) _____

Signature: _____ Date: 2/23/16

WOM Initiated By Login

Client on Credit Hold TAT changed to _____ other _____

Job needs Credit Card Processed Spoke to: _____ Time: _____ Date: _____ Initials: _____

Job released for Processing Spoke to: _____ Time: _____ Date: _____ Initials: _____



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159407

Matrix Wipe
Received 02/22/16
Analyzed 02/23/16
Reported 02/24/16

Project Goodfellow 103F
Location St Louis, MO
Number 916029

Table with 7 columns: Sample ID, Cust. Sample ID, Location, Sample Date, Area, Total, Conc., RL*. Rows include various sample IDs (159407-001 to 159407-012) and their corresponding test results for Lead.

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159407

Matrix Wipe
Received 02/22/16
Analyzed 02/22/16
Reported 02/24/16

Project Goodfellow 103F
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter		Method					
Lead		EPA 7000B / 3050B		1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159407-013	103F-PbW-006	1st FL B8 Window Sill	02/16/16				
Lead		EPA 7000B / 3050B		1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159407-014	103F-PbW-007	Blank	02/16/16				
Lead		EPA 7000B / 3050B			<10.0 µg/wipe		10.0 µg/wipe

Analyst IH
159407-02/24/16 09:03 AM

(b) (6)

Reviewed By **Abisola Kasali**
Metals Supervisor

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

159407



V:\159\159407

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64118	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103 F	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day † <input type="checkbox"/> 1 business day † <input type="checkbox"/> 2 business days † <input checked="" type="checkbox"/> 3 business days † <input type="checkbox"/> 5 business days † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid. <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ³		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103F-PbV-001	2-14-16		Basement Floor	100cm ²						
103F-PbV-002	↓		Tunnel Floor	↓						
103F-PbV-003			Basement Insulation							
103F-PbV-004			1 st Floor E8 Top of Brick							
103F-PbV-005			1 st Floor B10 Brick ledge							
103F-PbV-006			1 st Floor E11 Carpet							
103F-PbV-007			BLANK							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Justin Arnold SIGNATURE (b) (6) DATE / TIME 2/16	Relinquished to lab by Kevin Harkard NAME SIGNATURE (b) (6) DATE / TIME 2-14, 1600	2-22-16 DATE / TIME (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2235
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> CI <input checked="" type="checkbox"/> AR <input type="checkbox"/> SQ <input checked="" type="checkbox"/> X			

* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within lab. Ter



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 www.slabinc.com e-mail: info@slabinc.com

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 103 F	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † * Not available for all tests A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.	All samples on form should be of SAME matrix type. Use additional forms as needed. <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
103F-PBW-001	2-16-16		FG Plastic Elbow B84	1 SF						
103F-PBW-002			Basement Support Bar	1 SF						
103F-PBW-003			Basement Pipe	1 SF						
103F-PBW-004			1st floor E8 Top of shelf	1 SF						
103F-PBW-005			1st floor D8 Condiment w/d	1 SF						
103F-PBW-006			1st floor B8 Window Sill	1 SF						
103F-PBW-007			BLANK	-						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>Justin [redacted]</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-16-16</u>	Relinquished to lab by NAME <u>Karina [redacted]</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-17, 1600</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2285</u>
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> CI <input checked="" type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> X <input checked="" type="checkbox"/> R		

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Term



**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date: February 25, 2016

Attention: Jay Hurst
OCCU-TEC, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2226OCCA
Goodfellow - 103F Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 22, 2016. These samples represent the TEM samples for the Goodfellow - 103F Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eight (8) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

Kevin R. Bean, B.A.
TEM Senior Analyst

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - 103F Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	103F-AA-001	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I02	103F-AA-002	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I03	103F-AA-003	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I04	103F-AA-004	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I05	103F-AA-005	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I06	103F-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I07	103F-AA-007	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I08	103F-AA-008	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
 Filter diameter: 25mm
 Effective filter Area: 385mm²
 Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
 Grid Openings Analyzed Per Sample: 7
 Area Analyzed Per Sample: 0.0658mm²
 Non-Asbestos Debris: Non-Fibrous Debris
 Gypsum

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
 NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
 SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
 s/mm² - asbestos structures per square millimeter
 s/cc = asbestos structures per cubic centimeter
 * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director: (b) (6)

Date: 2/25/16



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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TEM AHERA CHAIN OF CUSTODY FORM

Company: <u>OCCU-TEC INC.</u>	Telephone #: <u>816-231-5580</u>	Fax #: <u>816-994-3470</u>
Contact: <u>Jay Hurst</u>	Client Project Number: <u>916029</u>	
Relinquished by: <u>(b) (6)</u>	Date: <u>2-16-16</u>	Time: <u>19:00</u>
Written Report To: <u>jayhurst@occutec.com ; jsmith@occutec.com</u>		
Project Name: <u>Goodfellow - 103F</u>		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour <u>2-3 Day</u> 4-5 Day Weekend Rush After Hour Rush		

MSE Project #: MSE-22260001A Comments: _____

Samples Received by: (b) (6) Date: 02/22/16 Time: 10:00 AM

Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763

Samples Prepared By: (b) (6) Method: Burdett & Rood

Samples Analyzed By: _____ Date: 2/22/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
103F-AA-001	Column F09 1st Floor	1320	1605	165	8.03	1324.95
103F-AA-002	Column B08 1st Floor	1328	1613	165	8.03	1324.95
103F-AA-003	Column C12 1st Floor	1337	1622	165	8.03	1324.95
103F-AA-004	Column F4.5 1st Floor	1340	1625	165	8.03	1324.95
103F-AA-005	Basement	1430	1715	165	8.03	1324.95
103F-AA-006	Basement	1434	1719	165	8.03	1324.95
103F-AA-007	Tunnel	1440	1725	165	8.03	1324.95
103F-AA-008	Basement	1447	1732	165	8.03	1324.95
103F-AA-009	BLANK	—	—	—	—	—
JA 103F-AA-010						

Results Transmitted/Date: _____ Fax/Phone By: _____

BUILDING 104, 104E, 104F

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 104				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104-AA-001	2nd Floor Column D-53	<17.7	s/mm ²	70 s/mm ²
104-AA-002	2nd Floor Column C-50	<17.7	s/mm ²	70 s/mm ²
104-AA-003	2nd Floor Column G-46	<17.7	s/mm ²	70 s/mm ²
104-AA-004	2nd Floor Column C-41	<17.7	s/mm ²	70 s/mm ²
104-AA-005	2nd Floor Column h-36	<17.7	s/mm ²	70 s/mm ²
104-AA-006	2nd Floor Column F-34	<17.7	s/mm ²	70 s/mm ²
104-AA-007	2nd Floor Column G-32	<17.7	s/mm ²	70 s/mm ²
104-AA-008	2nd Floor Column G-25.5	<17.7	s/mm ²	70 s/mm ²
104-AA-009	2nd Floor Column C-28	<17.7	s/mm ²	70 s/mm ²
104-AA-010	2nd Floor Column D-19	<17.7	s/mm ²	70 s/mm ²
104-AA-011	2nd Floor Column B-19	<17.7	s/mm ²	70 s/mm ²
104-AA-012	2nd Floor Column G-16	<17.7	s/mm ²	70 s/mm ²
104-AA-013	2nd Floor Column F-14	<17.7	s/mm ²	70 s/mm ²
104-AA-014	2nd Floor Column H-8	<17.7	s/mm ²	70 s/mm ²
104-AA-015	2nd Floor Column H-2	<17.7	s/mm ²	70 s/mm ²
104-AA-016	2nd Floor North Stair	<17.7	s/mm ²	70 s/mm ²
104-AA-017	1st Floor Column H-4	<15.2	s/mm ²	70 s/mm ²
104-AA-018	1st Floor Column B-5	<15.2	s/mm ²	70 s/mm ²
104-AA-019	1st Floor Column D-9	<15.2	s/mm ²	70 s/mm ²
104-AA-020	1st Floor - Column F-9	<15.2	s/mm ²	70 s/mm ²
104-AA-021	1st Floor Column E-11	<15.2	s/mm ²	70 s/mm ²
104-AA-022	1st Floor Column J-13	<15.2	s/mm ²	70 s/mm ²
104-AA-023	1st Floor Column J-21	<15.2	s/mm ²	70 s/mm ²
104-AA-024	1st Floor Column B-19	<15.2	s/mm ²	70 s/mm ²
104-AA-025	1st Floor Column E-23	<15.2	s/mm ²	70 s/mm ²
104-AA-026	1st Floor Column A-28	<15.2	s/mm ²	70 s/mm ²
104-AA-027	1st Floor Column G-30	<15.2	s/mm ²	70 s/mm ²
104-AA-028	1st Floor Column J-34	<15.2	s/mm ²	70 s/mm ²
104-AA-029	1st Floor Column A-38	<15.2	s/mm ²	70 s/mm ²
104-AA-030	1st Floor Column J-45	<15.2	s/mm ²	70 s/mm ²
104-AA-031	1st Floor Column E-49	<15.2	s/mm ²	70 s/mm ²
104-AA-032	1st Floor Column A-52	<15.2	s/mm ²	70 s/mm ²
104-AA-033	Basement West Tunnel	<15.2	s/mm ²	70 s/mm ²
104-AA-034	Basement Column G-25	<15.2	s/mm ²	70 s/mm ²
104-AA-035	Basement Column F-25	<15.2	s/mm ²	70 s/mm ²
104-AA-036	Basement Column E-27	<15.2	s/mm ²	70 s/mm ²
104-AA-037	Basement Column C-27	<15.2	s/mm ²	70 s/mm ²
104-AA-038	Basement Column A-27	<15.2	s/mm ²	70 s/mm ²
104-AA-039	Northeast Penthouse Air Handler	<15.2	s/mm ²	70 s/mm ²
104-AA-040	Northwest Penthouse Boiler Room	<15.2	s/mm ²	70 s/mm ²
104-AA-041	Middle Penthouse Elevator Room	<15.2	s/mm ²	70 s/mm ²
104-AA-042	Southwest Penthouse Chiller Room	<15.2	s/mm ²	70 s/mm ²
104-AA-043	Penthouse SEC-D	<15.2	s/mm ²	70 s/mm ²
104-AA-044	Blank		Not Analyzed	

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 104				
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104-AA-001	2nd Floor Column D-53	<2.11	µg/m ³	30 µg/m ³
104-AA-002	2nd Floor Column C-50	<2.03	µg/m ³	30 µg/m ³
104-AA-003	2nd Floor Column G-46	<2.03	µg/m ³	30 µg/m ³
104-AA-004	2nd Floor Column C-41	<2.07	µg/m ³	30 µg/m ³
104-AA-005	2nd Floor Column h-36	<2.10	µg/m ³	30 µg/m ³
104-AA-006	2nd Floor Column F-34	<2.13	µg/m ³	30 µg/m ³
104-AA-007	2nd Floor Column G-32	<2.18	µg/m ³	30 µg/m ³
104-AA-008	2nd Floor Column G-25.5	<2.18	µg/m ³	30 µg/m ³
104-AA-009	2nd Floor Column C-28	<2.20	µg/m ³	30 µg/m ³
104-AA-010	2nd Floor Column D-19	<2.21	µg/m ³	30 µg/m ³
104-AA-011	2nd Floor Column B-19	<2.26	µg/m ³	30 µg/m ³
104-AA-012	2nd Floor Column G-16	<2.27	µg/m ³	30 µg/m ³
104-AA-013	2nd Floor Column F-14	<2.37	µg/m ³	30 µg/m ³
104-AA-014	2nd Floor Column H-8	<2.44	µg/m ³	30 µg/m ³
104-AA-015	2nd Floor Column H-2	<2.48	µg/m ³	30 µg/m ³
104-AA-016	Second Floor North Stair	<2.48	µg/m ³	30 µg/m ³
104-AA-017	1st Floor Column H-4	<3.27	µg/m ³	30 µg/m ³
104-AA-018	1st Floor Column B-5	<3.27	µg/m ³	30 µg/m ³
104-AA-019	1st Floor Column D-9	<3.29	µg/m ³	30 µg/m ³
104-AA-020	1st Floor - Column F-9	<3.31	µg/m ³	30 µg/m ³
104-AA-021	1st Floor Column E-11	<3.31	µg/m ³	30 µg/m ³
104-AA-022	1st Floor Column J-13	<3.31	µg/m ³	30 µg/m ³
104-AA-023	1st Floor Column J-21	<3.25	µg/m ³	30 µg/m ³
104-AA-024	1st Floor Column B-19	<3.31	µg/m ³	30 µg/m ³
104-AA-025	1st Floor Column E-23	<3.31	µg/m ³	30 µg/m ³
104-AA-026	1st Floor Column A-28	<3.29	µg/m ³	30 µg/m ³
104-AA-027	1st Floor Column G-30	<3.86	µg/m ³	30 µg/m ³
104-AA-028	1st Floor Column J-34	<3.31	µg/m ³	30 µg/m ³
104-AA-029	1st Floor Column A-38	<3.31	µg/m ³	30 µg/m ³
104-AA-030	1st Floor Column J-45	<3.31	µg/m ³	30 µg/m ³
104-AA-031	1st Floor Column E-49	<3.29	µg/m ³	30 µg/m ³
104-AA-032	1st Floor Column A-52	<3.69	µg/m ³	30 µg/m ³
104-AA-033	Basement West Tunnel	<3.71	µg/m ³	30 µg/m ³
104-AA-034	Basement Column G-25	<3.73	µg/m ³	30 µg/m ³
104-AA-035	Basement Column F-25	<3.73	µg/m ³	30 µg/m ³
104-AA-036	Basement Column E-27	<3.69	µg/m ³	30 µg/m ³
104-AA-037	Basement Column C-27	<3.07	µg/m ³	30 µg/m ³
104-AA-038	Basement Column A-27	<3.12	µg/m ³	30 µg/m ³
104-AA-039	Northeast Penthouse Air Handler	<3.15	µg/m ³	30 µg/m ³
104-AA-040	Northwest Penthouse Boiler Room	<3.17	µg/m ³	30 µg/m ³
104-AA-041	Middle Penthouse Elevator Room	<3.19	µg/m ³	30 µg/m ³
104-AA-042	Southwest Penthouse Chiller Room	<3.17	µg/m ³	30 µg/m ³
104-AA-043	Penthouse SEC-D	<3.19	µg/m ³	30 µg/m ³

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 104				
104-AA-044	Blank	2	µg	30 µg/m ³
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104-PbW-001	2nd Floor Column B-51 Window Sill	30	µg/ft ²	200 µg/ft ²
104-PbW-002	2nd Floor Column C-37 Top of Cabinet	<10.0	µg/ft ²	200 µg/ft ²
104-PbW-003	2nd Floor Column J-27 Floor Tile by Door	42.3	µg/ft ²	200 µg/ft ²
104-PbW-004	2nd Floor Column E-20 Top of Cabinet	<10.0	µg/ft ²	200 µg/ft ²
104-PbW-005	2nd Floor Column B-17 Stair Tread	42.3	µg/ft ²	200 µg/ft ²
104-PbW-006	2nd Floor Column F-9 Top of Light	189	µg/ft ²	200 µg/ft ²
104-PbW-007	1st Floor Column D-4 Concrete Floor	63.3	µg/ft ²	200 µg/ft ²
104-PbW-008	1st Floor Column D-8 Top of File Cabinet	<10.0	µg/ft ²	200 µg/ft ²
104-PbW-009	1st Floor Column E-15 Concrete	<10.0	µg/ft ²	200 µg/ft ²
104-PbW-010	1st Floor Column J-33 Tope of File Cabinet	<10.0	µg/ft ²	200 µg/ft ²
104-PbW-011	1st Floor Column E-47 Concrete Floor	<10.0	µg/ft ²	200 µg/ft ²
104-PbW-012	1st Floor Column A-50 Top of Rolling Stack	86	µg/ft ²	200 µg/ft ²
104-PbW-013	Basement Column G-26 Tank Cradle	1150	µg/ft ²	200 µg/ft ²
104-PbW-014	Basement Column F-27 Metal Stair to Crawl Space	1670	µg/ft ²	200 µg/ft ²
104-PbW-015	Basement D-27 Top of Tank	375	µg/ft ²	200 µg/ft ²
104-PbW-016	Northwest Penthouse Boiler Room Floor	28.2	µg/ft ²	200 µg/ft ²
104-PbW-017	Center Elevator Penthouse Electrical Box	156	µg/ft ²	200 µg/ft ²
104-PbW-018	Penthouse Sec-D Floor	210	µg/ft ²	200 µg/ft ²
104-PbW-019	Blank	<10.0	µg	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104-PbV-001	2nd Floor Column C52.5 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-002	2nd Floor Column B-45 Carpet	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-003	2nd Floor Column G-31 Tope of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-004	2nd Floor Column F-27 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-005	2nd Floor Column G-24 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-006	2nd Floor Column E-20 Carpet Below Copier	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-007	2nd Floor Column B-17 Freight Elevator Floor	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-008	2nd Floor Column F-4 Closet Floor	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-009	1st Floor Column D-4 Top of Rolling File Cabinet	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-010	1st Floor Column D-8 Carpet in Microfilm Office	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-011	1st Floor Column J-16 Top of Fire Hose Cabinet	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-012	1st Floor Column C-21 Top of Fabric Chair	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-013	1st Floor Column F-32 Carpet	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-014	1st Floor Column E-47 Top of File Cabinet	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-015	1st Floor Column A-50 Top of Speaker	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-016	First Floor Column F-9 Tope of Cabinet	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-017	Basement - Column J-27 West Entrance Floor	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-018	Basement - Column J-27 West Tunnel Floor	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-019	Basement Column J-26 Fire Support Pump	<92.9	µg/ft ²	200 µg/ft ²
104-PbV-020	Basement Column G-27 Stair to Crawl Space	1300	µg/ft ²	200 µg/ft ²
104-PbV-021	Basement Column F-25 Below North Crawl Space	86.1	µg/ft ²	200 µg/ft ²

s/mm² = structures per square millimeter
µg/m³ = micrograms per cubic meter
µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 104				
104-PbV-022	Basement Column B-26 Below North Crawl Space	18	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
104-PbV-023	Basement Column A-27 Concrete Floor at E Tunnel	38.2	$\mu\text{g}/\text{ft}^2$	200 $\mu\text{g}/\text{ft}^2$
104-PbV-024	Basement Column B-26 Fabric Chair in Office	<10	μg	200 $\mu\text{g}/\text{ft}^2$

s/mm² = structures per square millimeter
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter
 $\mu\text{g}/\text{ft}^2$ = micrograms per square foot

(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE:
GOODFELLOW MO0609 (104) - PENTHOUSE

CLIENT NAME:
GENERAL SERVICES ADMINISTRATION

PROJECT NAME:
GOODFELLOW GS-P-16-16-GZ7025

DRAWN by: JWH

SUB. DATE: 03/04/16

SCALE: NTS

916029

(b) (7)(F)

SAMPLE LEGEND
 ▲ = SAMPLE LOCATION
 AA = ASBESTOS AIR SAMPLE
 PbA = LEAD AIR SAMPLE
 PbW = LEAD WIPE SAMPLE
 PbV = LEAD MICRO-VAC SAMPLE



TITLE:
GOODFELLOW MO0609 (104) - 2nd FLOOR

CLIENT NAME:
GENERAL SERVICES ADMINISTRATION

PROJECT NAME:
GOODFELLOW GS-P-16-16-GZ7025

DRAWN by: JWH

SUB. DATE: 03/04/16

SCALE: NTS

916029

(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0609 (104) - 1st FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 160227

Matrix Wipe
Received 02/29/16
Analyzed 02/29/16
Reported 03/01/16

Project Goodfellow Federal Center 104
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
160227-001	104-PbV-001	2nd C52.5 Ceiling Tile	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-002	104-PbV-002	2nd B45 Carpet	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-003	104-PbV-003	2nd G31 Ceiling Tile	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-004	104-PbV-004	2nd F27 Ceiling Tile	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-005	104-PbV-005	2nd G24 Ceiling Tile	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-006	104-PbV-006	2nd E 20 Carpet	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-007	104-PbV-007	2nd B17 Freight Elev Fl	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-008	104-PbV-008	2nd F4 Fl	02/24/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-009	104-PbV-009	1st D4 File Cabinet	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-010	104-PbV-010	1st D8 Carpet	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-011	104-PbV-011	1st J16 File Cabinet	02/25/16			

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 160227

Matrix Wipe
Received 02/29/16
Analyzed 02/29/16
Reported 03/01/16

Project Goodfellow Federal Center 104
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter		Method					
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-012	104-PbV-012	1st Fabric Chair	02/25/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-013	104-PbV-013	1st Carpet	02/25/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-014	104-PbV-014	1st E47 File Cabinet	02/25/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-015	104-PbV-015	1st A50 Speaker	02/25/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-016	104-PbV-016	1st F9 File Cabinet	02/25/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-017	104-PbV-017	Bsmt J27	02/25/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-018	104-PbV-018	Bsmt W Tunnel J27	02/25/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-019	104-PbV-019	Bsmt Fire Supp. Pump J26	02/25/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
160227-020	104-PbV-020	Bsmt Stair To S Crawl G27	02/25/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	140 µg/wipe	1300 µg/ft2	92.9 µg/ft2
160227-021	104-PbV-021	Bsmt Below N Crawl Space	02/25/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.694 ft2	<10.0 µg/wipe	<14.4 µg/ft2	14.4 µg/ft2

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 160227

Matrix Wipe
Received 02/29/16
Analyzed 02/29/16
Reported 03/01/16

Project Goodfellow Federal Center 104
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
160227-022	104-PbV-022	Bsmt Below N Crawl Space	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.694 ft2	59.8 µg/wipe	86.1 µg/ft2	14.4 µg/ft2
160227-023	104-PbV-023	Bsmt Entrance To E Tunnel	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.694 ft2	12.5 µg/wipe	18.0 µg/ft2	14.4 µg/ft2
160227-024	104-PbV-024	Bsmt Fabric Chair B26	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.694 ft2	26.5 µg/wipe	38.2 µg/ft2	14.4 µg/ft2
160227-025	104-PbV-025	Blank	02/25/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 µg/wipe

Analyst IH
160227-03/01/16 10:32 AM

(b) (6)

Reviewed By **Marti Baird**
Analyst

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

160227



V:\160\160227

Submitting Co. OCCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 104	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/>	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 800/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> <input type="checkbox"/> Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others <input type="checkbox"/>
		Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:	

Sample #	Date Sampled	Time Sampled	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
P104-Pbv-001 Pbv	2/24		2 nd C52.5 Ceiling tile	100cm ²						
104-Pbv-002			2 nd B45 Carpet	100cm ²						
Pbv-003			2 nd G31 Ceiling Tile	100cm ²						
004			2 nd F27 Ceiling Tile	100cm ²						
005			2 nd G24 Ceiling tile	100cm ²						
006			2 nd E20 Carpet	100cm ²						
007			2 nd B17 freight Elev Floor	100cm ²						
008			2 nd F4 Floor	100cm ²						
009	2/25		1 st D4 file Cabinet	100cm ²						
010			1 st D8 Carpet	100cm ²						
011			1 st J16 file Cabinet	100cm ²						
012			1 st Fabric Chair	100cm ²						

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by NAME <u>Justin Arnold</u> SIGNATURE <u>(b) (6)</u> DATE/TIME	Relinquished to lab by NAME <u>Justin Arnold</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-26-16</u>	Sample Disposal <small>If samples over red. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2198</u>
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Tel



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

WO Label

Submitting Co. OCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 104	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/>	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> <input type="checkbox"/> Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104-PW-013	2/25		1st Carpet	100 sq ft						
014			1st E47 File Cabinet							
015			1st ASD Speaker							
016			1st F9 File Cabinet							
017			Basement J27							
018			West Tunnel J27							
019			Fire Suppression Pump J24							
020			Stair to S Crawl Space G27							
021			below N Crawl Space F25							
022			below N Crawl Space B26							
023			Entrance to East Tunnel A27							
024			Fabric Chair B26							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by ME Jeff Smith SIGNATURE (b) (6) DATE/TIME 02-25-16	Relinquished to lab by NAME Justin Arnold SIGNATURE (b) (6) DATE/TIME 2/29/16	Sample Disposal <small>If samples over req. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2198
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Sample return requested Ambient temp Ice CI R S X Re
* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms

2 of 3



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804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabin.com e-mail: info@slabin.com

WO Label

Submitting Co. OCCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 104	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)			
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/>	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/1,4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> <input type="checkbox"/> Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> Others <input type="checkbox"/>	
		Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:		

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104-P5V-025	2/25		BLANK	-	-	-	-	-	-	-

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by ME <u>Joff Smith</u> SIGNATURE (b) (6) DATE/TIME <u>2-25-16</u>	Relinquished to lab by NAME <u>Justin Andri</u> SIGNATURE (b) (6) DATE/TIME <u>2-24-16</u>	<u>2-29-16</u> (b) (6)	Sample Disposal <small>If sample over req. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2198</u> <u>3 of 3</u>
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Sample return requested Ambient temp Ice Cl R S X

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab.



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	160226
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Matrix Air
Received 02/29/16
Analyzed 02/29/16
Reported 03/01/16

Attn:
Project: Goodfellow Federal Center 104
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume
Parameter	Method			Total	RL*	Conc.
						8 Hr TWA
160226-001	104-PbA-001	2 D53	02/24/16	259 min	3.67 L/min	951 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-002	104-PbA-002	2 C50	02/24/16	269 min	3.67 L/min	987 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-003	104-PbA-003	2 G46	02/24/16	269 min	3.67 L/min	987 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-004	104-PbA-004	2 C41	02/24/16	264 min	3.67 L/min	969 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-005	104-PbA-005	2 H36	02/24/16	260 min	3.67 L/min	954 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
<i>Endcaps missing; possible cross-contamination or sample loss.</i>						
160226-006	104-PbA-006	2 F34	02/24/16	256 min	3.67 L/min	940 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-007	104-PbA-007	2 G32	02/24/16	250 min	3.67 L/min	918 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-008	104-PbA-008	2 G25.5	02/24/16	251 min	3.67 L/min	921 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-009	104-PbA-009	2 C28	02/24/16	248 min	3.67 L/min	910 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-010	104-PbA-010	2 D19	02/24/16	247 min	3.67 L/min	906 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-011	104-PbA-011	2 B19	02/24/16	242 min	3.67 L/min	888 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-012	104-PbA-012	2 G16	02/24/16	240 min	3.67 L/min	881 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-013	104-PbA-013	2 F14	02/24/16	230 min	3.67 L/min	844 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-014	104-PbA-014	2 H8	02/24/16	224 min	3.67 L/min	822 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-015	104-PbA-015	2 H2	02/24/16	220 min	3.67 L/min	807 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-016	104-PbA-016	2 N Stair	02/24/16	220 min	3.67 L/min	807 L
Lead	NIOSH 7082M			<2.00 µg	2.00 µg	<1.14 µg/m3
160226-017	104-PbA-017	1 H4	02/24/16	167 min	3.67 L/min	613 L

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 160226

Matrix: Air
Received: 02/29/16
Analyzed: 02/29/16
Reported: 03/01/16

Attn:
Project: Goodfellow Federal Center 104
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.27 µg/m3	<1.14 µg/m3
160226-018	104-PbA-018	1 B5	02/24/16	167 min	3.67 L/min	613 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.27 µg/m3	<1.14 µg/m3
160226-019	104-PbA-019	1 D9	02/24/16	166 min	3.67 L/min	609 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.29 µg/m3	<1.14 µg/m3
160226-020	104-PbA-020	1 F9	02/24/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-021	104-PbA-021	1 E11	02/24/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-022	104-PbA-022	1 J13	02/24/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-023	104-PbA-023	1 J21	02/24/16	168 min	3.67 L/min	617 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.25 µg/m3	<1.14 µg/m3
160226-024	104-PbA-024	1 B19	02/24/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-025	104-PbA-025	1 E23	02/24/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-026	104-PbA-026	1 A28	02/24/16	166 min	3.67 L/min	609 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.29 µg/m3	<1.14 µg/m3
160226-027	104-PbA-027	1 G30	02/24/16	165 min	3.14 L/min	518 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.86 µg/m3	<1.33 µg/m3
160226-028	104-PbA-028	1 J34	02/24/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-029	104-PbA-029	1 A38	02/24/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-030	104-PbA-030	1 J45	02/24/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
160226-031	104-PbA-031	1	02/24/16	166 min	3.67 L/min	609 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.29 µg/m3	<1.14 µg/m3
160226-032	104-PbA-032	1 A52	02/26/16	161 min	3.67 L/min	591 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.39 µg/m3	<1.14 µg/m3
160226-033	104-PbA-033	B W Tunnel	02/26/16	178 min	3.05 L/min	543 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.69 µg/m3	<1.37 µg/m3
160226-034	104-PbA-034	B G25	02/26/16	177 min	3.05 L/min	540 L	

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	160226
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Matrix Air
Received 02/29/16
Analyzed 02/29/16
Reported 03/01/16

PO Number:

Attn:
Project: Goodfellow Federal Center 104
Location: St Louis, MO
Number: 916029

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.71 µg/m3	<1.37 µg/m3
160226-035	104-PbA-035	B F25	02/26/16	176 min	3.05 L/min	537 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.73 µg/m3	<1.37 µg/m3
160226-036	104-PbA-036	B E27	02/26/16	178 min	3.05 L/min	543 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.69 µg/m3	<1.37 µg/m3
160226-037	104-PbA-037	B C27	02/26/16	178 min	3.67 L/min	653 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.07 µg/m3	<1.14 µg/m3
160226-038	104-PbA-038	Tunnel A27	02/26/16	175 min	3.67 L/min	642 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.12 µg/m3	<1.14 µg/m3
160226-039	104-PbA-039	P NE AH	02/26/16	173 min	3.67 L/min	635 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.15 µg/m3	<1.14 µg/m3
160226-040	104-PbA-040	P NW Boiler	02/26/16	172 min	3.67 L/min	631 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.17 µg/m3	<1.14 µg/m3
160226-041	104-PbA-041	P Mid Elv	02/26/16	171 min	3.67 L/min	628 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.19 µg/m3	<1.14 µg/m3
160226-042	104-PbA-042	P Sec D	02/26/16	172 min	3.67 L/min	631 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.17 µg/m3	<1.14 µg/m3
160226-043	104-PbA-043		02/26/16	171 min	3.67 L/min	628 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.19 µg/m3	<1.14 µg/m3
160226-044	104-PbA-044	Blank	02/26/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH
160226-03/01/16 10:44 AM

(b) (6)

Reviewed By: **Marti Baird**
Analyst

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



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160226



V\160\160226

Submitting Co. OCCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 104	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> HI-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> HI-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Micro-Vac Dust	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II)	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield)	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others
		Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:	

Sample #	Date Sampled*	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104-PBA-001	2-24		2 - DS3			0727	1146	3.67	3.67	950.43
002			2 - CS0			0734	1203			987.23
003			2 - G46			0741	1210			987.23
004			2 - C41			0751	1215			965.88
005			2 - H36			0758	1218			954.2
006			2 - F34			0805	1221			939.52
007			2 - G32			0814	1224			917.5
008			2 - G25.5			0819	1230			921.17
009			2 - L28			0825	1233			910.16
010			2 - D19			0831	1238			906.49
011			2 - B19			0840	1242			888.14
012			2 - G16			0847	1247			880.8

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters (time in min * flow in L/min)

Sampled by ME <u>Jeff Smith</u> SIGNATURE (b) (6) DATE/TIME <u>2-24-16</u>	Relinquished to lab by NAME <u>Justin Arnold</u> SIGNATURE (b) (6) DATE/TIME <u>2-26-16</u>	<u>2-29-16</u> (b) (6)	Sample Disposal <small>if samples over req. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2196</u>
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Ter

1 of 4



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www.slabin.com e-mail: info@slabin.com

WO Label

Submitting Co. OCCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 104	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)			
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business days* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/>	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/>	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.11.4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> <input type="checkbox"/> Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others <input type="checkbox"/>	
		Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:		

Sample #	Date Sampled*	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104-P6A-013			2 - F14			0900	1250	3.67	3.67	744.1
014			2 - H7			0913	1257			822.08
015			2 - HZ			0920	1300			707.4
016			2 - N Stair			0925	1305			707.4
017			1 - H4			1315	1602			612.79
018			1 - B5			1319	1606			612.89
019			1 - D9			1328	1614			609.22
020			1 - F9			1333	1618			605.55
021			1 - E11			1343	1628			605.55
022			1 - J13			1350	1635			605.55
023			1 - J21			1355	1643			616.56
024			1 - B19			1416	1701			605.55

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-24-16</u>	Relinquished to lab by NAME <u>Justin Amos</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-24-16</u>	Sample Disposal (Refer to Fee Schedule) <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2776</u>
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
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 www.slabinc.com e-mail: info@slabinc.com

WO Label

Submitting Co. OCCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 104	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business days* <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/>	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.11.4/1.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104-P61A-025			1 - E 203			1420	1705	3.67	3.67	605.55
026			1 - A 28			1427	1713	↓	↓	609.22
027			1 - G 30			1432	1717	3.67	2.61	518.1
028			1 - J 34			1443	1728	3.67	3.67	605.55
029			1 - A 3T			1455	1740	↓	↓	605.55
030			1 - J 45			1500	1745	↓	↓	605.55
031			1 -			1503	1749	3.67	3.67	609.22
032	2/26		1 - A 52			1509	1750	↓	↓	590.87
033			B - W Tunnel			0920	1218	3.05	3.05	542.9
034			B - G 25			0924	1221	↓	↓	539.85
035			B - F 25			0927	1223	↓	↓	536.8
036			B - E 27			0930	1228	↓	↓	542.9

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by NAME (b) (6) SIGNATURE (b) (6) DATE/TIME 2-24-16	Relinquished to lab by NAME Justin Arault SIGNATURE (b) (6) DATE/TIME 12-24-14	Sample Disposal <small>If samples over req. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2176
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab.



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WO Label

Submitting Co. OCCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 104	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business days <i>VLL</i> <input type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* * not available for all tests Schedule rush organics, multi-metals & weekend tests in advance.	All samples on form should be of SAME matrix type. Use additional forms as needed. <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> HI-Vol Filter (PM10) <input type="checkbox"/> HI-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/>	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.11/41.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> <input type="checkbox"/> Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others <input type="checkbox"/>

Sample #	Date Sampled	Time Sampled	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104-P6A-037	2/26		B - C 27			0932	1230	3.67	3.67	542.9
038			Tunnel A 27			0936	1231	↓	↓	542.9
039			P-NE A17			1100	1353	3.67	3.67	333.75
040			P-NW - Boiler			1105	1357	↓	↓	631.24
041			P-Mid Elv			1112	1403	↓	↓	627.57
042			P-SEC D			1118	1410	↓	↓	741.34
043						1124	1415	↓	↓	627.57
044			Blank							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by NAME <i>Jeff Smith</i> SIGNATURE (b) (6) DATE/TIME <i>2-24-16</i>	Relinquished to lab by NAME <i>Justin Arnold</i> SIGNATURE (b) (6) DATE/TIME <i>2-24-16</i>	Sample Disposal If samples over req. weight (Refer to Fee Schedule) <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$60 fee) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <i>2-29-16</i> <i>2-24-16</i>
---	--	---

Sample return requested Ambient temp Ice CI R S X



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	160224
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Matrix Wipe
Received 02/29/16
Analyzed 02/29/16
Reported 02/29/16

Project Goodfellow Federal Center 104
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter	Method						
160224-001	104-PbW-001	2nd B51 Window Sill	02/26/16				
Lead	EPA 7000B / 3050B			1.00 ft2	30.0 µg/wipe	30.0 µg/ft2	10.0 µg/ft2
160224-002	104-PbW-002	2nd C37 Cabinet	02/26/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
160224-003	104-PbW-003	2nd J27 Floor/Floor Tile	02/26/16				
Lead	EPA 7000B / 3050B			1.00 ft2	42.3 µg/wipe	42.3 µg/ft2	10.0 µg/ft2
160224-004	104-PbW-004	2nd E20 Top Of Cabinet	02/26/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
160224-005	104-PbW-005	2nd B17 Stair Tread	02/26/16				
Lead	EPA 7000B / 3050B			1.00 ft2	42.3 µg/wipe	42.3 µg/ft2	10.0 µg/ft2
160224-006	104-PbW-006	2nd F9 Light	02/26/16				
Lead	EPA 7000B / 3050B			1.00 ft2	189 µg/wipe	189 µg/ft2	10.0 µg/ft2
160224-007	104-PbW-007	1st D4 Floor	02/25/16				
Lead	EPA 7000B / 3050B			1.00 ft2	63.3 µg/wipe	63.3 µg/ft2	10.0 µg/ft2
160224-008	104-PbW-008	1st D8 File Cabinet	02/25/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
160224-009	104-PbW-009	1st E15 Concrete Floor	02/25/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
160224-010	104-PbW-010	1st J33 File Cabinet	02/25/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
160224-011	104-PbW-011	1st E47 Concrete Floor	02/25/16				
Lead	EPA 7000B / 3050B			1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
160224-012	104-PbW-012	1st A50 File Stack	02/25/16				
Lead	EPA 7000B / 3050B			1.00 ft2	86.0 µg/wipe	86.0 µg/ft2	10.0 µg/ft2
160224-013	104-PbW-013	Basement G29 Tank Cradle	02/25/16				
Lead	EPA 7000B / 3050B			1.00 ft2	1150 µg/wipe	1150 µg/ft2	50.0 µg/ft2
160224-014	104-PbW-014	Basement F27 Stair	02/25/16				

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 160224

Matrix Wipe
Received 02/29/16
Analyzed 02/29/16
Reported 02/29/16

Project Goodfellow Federal Center 104
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter		Method					
Lead		EPA 7000B / 3050B		1.00 ft2	1670 µg/wipe	1670 µg/ft2	50.0 µg/ft2
160224-015	104-PbW-015	Basement D27 Top Of Tank	02/25/16				
Lead		EPA 7000B / 3050B		1.00 ft2	375 µg/wipe	375 µg/ft2	10.0 µg/ft2
160224-016	104-PbW-016	Penthouse NW Boiler Rm	02/26/16				
Lead		EPA 7000B / 3050B		1.00 ft2	28.2 µg/wipe	28.2 µg/ft2	10.0 µg/ft2
160224-017	104-PbW-017	Penthouse Elevator	02/26/16				
Lead		EPA 7000B / 3050B		1.00 ft2	156 µg/wipe	156 µg/ft2	10.0 µg/ft2
160224-018	104-PbW-018	Penthouse Section D Floor	02/26/16				
Lead		EPA 7000B / 3050B		1.00 ft2	210 µg/wipe	210 µg/ft2	10.0 µg/ft2
160224-019	104-PbW-019	Blank	02/26/16				
Lead		EPA 7000B / 3050B			<10.0 µg/wipe		10.0 µg/wipe

Analyst IH
160224-02/29/16 03:58 PM

(b) (6)

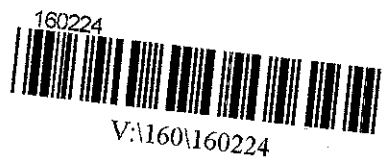
Reviewed By **Abisola Kasali**
Metals Supervisor

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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Submitting Co. OCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@ocutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 104	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/>	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> <input type="checkbox"/> Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104-Prjw-001	2/26		2 ND B51 Windows Sill	1 sf						
002			2 ND C37 Cabinet							
003			2 ND J27 floor/floor tile							
004			2 ND E20 Top of Cabinet							
005			2 ND B17 Stair Trend							
006			2 ND F9 light							
007	2/25		1 st D4 floor							
008			1 st D8 file cabinet							
009			1 st E15 concrete floor							
010			1 st J33 file cabinet							
011			1 st E47 concrete floor							
012			1 st A50 file stack							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters (time in min * flow in L/min)

Sampled by ME Jeff Smith SIGNATURE (b) (6) DATE/TIME 2-25-16	Relinquished to lab by NAME Justin Amali SIGNATURE (b) (6) DATE/TIME 2-26-16	2-29-16 (b) (6)	Sample Disposal <small>If samples over red. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2202
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.



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WO Label

Submitting Co. OCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 104	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input checked="" type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED: _____	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <input type="checkbox"/> _____ Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> _____ Others <input type="checkbox"/> _____

Sample #	Date Sampled*	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104-PBW-013	2/25		Basement G24 Tank Grade	1 sf						
014			Basement F27 Stair to Coal							
015			Basement D27 top of Tank							
016	2/26		Penthouse NW Boiler Room floor							
017			Penthouse Elevator - Electric Box							
018			Penthouse Section D floor							
019			BLANK	-	-	-	-	-	-	-

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by ME Jeff Smith SIGNATURE (b) (6) DATE/TIME 2-25-16	Relinquished to lab by Justi Arnold SIGNATURE (b) (6) DATE/TIME 2-26-16	2-29-16 (b) (6)	Sample Disposal <small>If samples over red. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2202
---	--	---------------------------	---

Sample return requested Ambient temp Ice CI R S N X P

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Term



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: March 2, 2016

Attention: Jay Hurst
OCCU-TEC, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2296OCCA
Goodfellow-104
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 29, 2016. These samples represent the TEM samples for the Goodfellow-104 - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the sixteen (16) samples are summarized in Table I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow-104 - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	104-AA-001	NSD	NA	2079.80	0.0033	BDL (0.0033)*	BDL (17.7)*
I02	104-AA-002	NSD	NA	2160.10	0.0032	BDL (0.0032)*	BDL (17.7)*
I03	104-AA-003	NSD	NA	2160.10	0.0032	BDL (0.0032)*	BDL (17.7)*
I04	104-AA-004	NSD	NA	2119.90	0.0032	BDL (0.0032)*	BDL (17.7)*
I05	104-AA-005	NSD	NA	2087.80	0.0033	BDL (0.0033)*	BDL (17.7)*
I06	104-AA-006	NSD	NA	2055.70	0.0033	BDL (0.0033)*	BDL (17.7)*
I07	104-AA-007	NSD	NA	2007.50	0.0034	BDL (0.0034)*	BDL (17.7)*
I08	104-AA-008	NSD	NA	2015.50	0.0034	BDL (0.0034)*	BDL (17.7)*
I09	104-AA-009	NSD	NA	1991.40	0.0034	BDL (0.0034)*	BDL (17.7)*
I10	104-AA-010	NSD	NA	1983.40	0.0034	BDL (0.0034)*	BDL (17.7)*

Filter Type: MCE
 Filter diameter: 25mm
 Effective filter Area: 385mm²
 Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
 Grid Openings Analyzed Per Sample: 6
 Area Analyzed Per Sample: 0.0564mm²
 Non-Asbestos Debris: Non-Fibrous Debris

Notes:
 The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
 NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
 SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
 s/mm² - asbestos structures per square millimeter
 s/cc = asbestos structures per cubic centimeter
 * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
 The analysis was performed according to the TEM Method (40CFR part 763).
 This laboratory is in compliance with the specified method.
 Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director: _____

Date: 3/2/16

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow-104 - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I11	104-AA-011	NSD	NA	1943.30	0.0035	BDL (0.0035)*	BDL (17.7)*
I12	104-AA-012	NSD	NA	1927.20	0.0035	BDL (0.0035)*	BDL (17.7)*
I13	104-AA-013	NSD	NA	1846.90	0.0037	BDL (0.0037)*	BDL (17.7)*
I14	104-AA-014	NSD	NA	1798.70	0.0038	BDL (0.0038)*	BDL (17.7)*
I15	104-AA-015	NSD	NA	1766.60	0.0039	BDL (0.0039)*	BDL (17.7)*
I16	104-AA-016	NSD	NA	1766.60	0.0039	BDL (0.0039)*	BDL (17.7)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 6
Area Analyzed Per Sample: 0.0564mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:
The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter

* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 3/2/12



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TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC.	Telephone #: 816-231-5580	Fax #: 816-994-3470
Contact: Jay Hurst	Client Project Number: 916029	
Relinquished by: <u>Jeff Smith</u>	Date: <u>2-26-16</u>	Time: <u>1800</u>
Written Report To: <u>jayhurst@occutec.com ; jsmith@occutec.com</u>		
Project Name: <u>Goodfellow - 104</u>		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour <u>23 Day</u> 4-5 Day Weekend Rush After Hour Rush		

MSE Project #: MSE- <u>22960001A</u>	Comments: <u>Lab</u>
Samples Received by: <u>(b) (6)</u>	Date: <u>2/29/16</u> Time: <u>1000A</u>
Sample To Be Analyzed by: <u>TEM AHERA / EPA 40CFR Part 763</u>	
Samples Prepared By: <u>(b) (6)</u>	Method: <u>Burdett & Rood</u>
Samples Analyzed By: <u>(b) (6)</u>	Date: <u>2/29/16</u>

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
104-AA-001	2nd FI at D53	727	1146	259	8.03	2079.8
-002	2nd FI at C50	734	1203	269	8.03	2160.1
-003	2nd FI at G46	741	1210	269	8.03	2160.1
-004	2nd FI at C41	751	1215	264	8.03	2119.9
-005	2nd FI at H36	758	1218	260	8.03	2087.8
-006	2nd FI at F34	805	1221	256	8.03	2055.7
-007	2nd FI at G32	814	1224	250	8.03	2007.5
-008	2nd FI at G25.5	819	1230	251	8.03	2015.5
-009	2nd FI at C28	825	1233	248	8.03	1991.4
-010	2nd at D19	831	1238	247	8.03	1983.4
-011	2nd at B19	840	1242	242	8.03	1943.3
-012	2nd at G16	847	1247	240	8.03	1927.2
-013	2nd at F14	900	1250	230	8.03	1846.9
-014	2nd at H8	913	1257	224	8.03	1798.7
-015	2nd at to H1 <u>to H2</u>	920	1300	220	8.03	1766.6

Results Transmitted/Date: _____ Fax/Phone By: _____



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TEM AHERA CHAIN OF CUSTODY FORM

Company: <u>OCCU-TEC INC.</u>	Telephone #: <u>816-231-5580</u>	Fax #: <u>816-994-3470</u>
Contact: <u>Jay Hurst</u>	Client Project Number: <u>916029</u>	
Relinquished by: <u>Jeff Smith</u>	Date: <u>2-26-16</u>	Time: <u>1800</u>
Written Report To: <u>jayhurst@occutec.com ; jsmith@occutec.com</u>		
Project Name: <u>Goodfellow - 704</u>		
Turn-Around Time: (Circle One) <input type="checkbox"/> 4 Hour <input type="checkbox"/> 6-8 Hour(same day) <input type="checkbox"/> 24 Hour <input type="checkbox"/> 2-3 Day <input type="checkbox"/> 4-5 Day <input type="checkbox"/> Weekend Rush <input type="checkbox"/> After Hour Rush		

MSE Project #: MSE- <u>22960CCA</u>	Comments: <u>Infact</u>
Samples Received by: <u>(b) (6)</u>	Date: <u>2/29/16</u> Time: <u>1000A</u>
Sample To Be Analyzed by: <u>TEM AHERA / EPA 40 CFR Part 763</u>	
Samples Prepared By: <u>(b) (6)</u>	Method: <u>Burdett & Rood</u>
Samples Analyzed By:	Date: <u>2/29/16</u>

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
104-AA-016	2nd at North Star	925	1305	220	9.16	1766.6
-017	1st Fl at H4	1315	1602	167	8.03	1341
-018	1st at B5	1319	1606	167	8.03	1341
-019	1st at D9	1328	1614	166	8.03	1341 1333
-020	1st at F9	1333	1618	165	8.03	1325
-021	1st at E11	1343	1628	165	8.03	1325
-022	1st at J13	1350	1635	165	8.02	1325
-023	1st at J21	1355	1643	168	8.02	1349
-024	1st at B19	1416	1701	165	8.02	1325
-025	1st at E23	1420	1705	165	8.02	1325
-026	1st at A28	1427	1713	166	8.02	1333
-027	1st at G30	1432	1717	165	8.02	1325
-028	1st at J34	1443	1728	165	8.02	1325
-029	1st at A38	1455	1746	165	8.02	1325
-030	1st at J45	1500	1745	165	8.02	1325

Results Transmitted/Date: _____ Fax/Phone By: _____



**McCall and Spero
Environmental, Inc.**

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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date: March 2, 2016

Attention: Jay Hurst
OCCU-TEC, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2296OCCA.5
Goodfellow - 104 Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 29, 2016. These samples represent the TEM samples for the Goodfellow - 104 Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the two (2) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I
Inside Samples

Project Name: Goodfellow - 104 Project - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA.5

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I31	104-AA-031	NSD	NA	1333	0.0044	BDL (0.0044)*	BDL (15.2)*
I32	104-AA-032	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

CH = Chrysotile A = Amosite BDL = Below Detectable Limit
F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.
Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Laboratory Director: (b) (6) Date: 3/2/16



McCall and Spero
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TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC. Telephone #: 816-231-5580 Fax #: 816-994-3470
 Contact: Jay Hurst Client Project Number: 916029
 Requisitioned by: JAF Smith Date: 2-26-16 Time: 1800
 Written Report To: jayhurst@occutec.com ; jsmith@occutec.com
 Project Name: Goodfellow - 104
 Turn-Around Time: (Circle One) 4 Hour | 6-8 Hour (same day) | 24 Hour | 3 Day | 4-5 Day | Weekend Rush | After Hour Rush

~~File Location - Use Only~~

MSE Project #: MSE-229600A5 Comment: Intact
 Samples Received by: (b) (6) Date: 2/29/16 Time: 1000
 Sample To Be Analyzed by: TEM AHERA / EPA 40 CFR Part 763
 Samples Prepared By: (b) (6) Method: Burden & Rood
 Samples Analyzed By: (b) (6) Date: 2/29/16

Client ID Number	Sample Location / Type (D) Inside (O) Outside (B) Blank (P) Personal (A) Ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
104-AA-031	1st Floor @ E 49	1503	1749	166	8.03	1358
-032	1st @ A 52	1505	1750	165	8.03	1325
-033	Basement @ W Tunnel	918	1218	180	8.03	1449
-034	Basement @ G 25	925	1222	177	8.03	1424.9
-035	Basement @ F 25	927	1224	177	8.03	1424.9
-036	Basement @ E 27	929	1228	179	8.03	1441
-037	Basement @ C 27	932	1229	177	8.03	1424.9
-038	Basement @ A 29 Tunnel	935	1232	177	8.03	1424.9
-039	Penthouse NE Air Hand	1100	1353	173	8.03	1389.2
-040	Pent - NW Baler	1105	1357	172	8.03	1381.2
-041	Pent - Mid Elev Rm	1112	1403	171	8.03	1373.1
-042	Pent - Sur PC	1118	1410	172	8.03	1381.2
-043	Pent - SCC-D	1124	1415	171	8.03	1373.1
-044	Blank	-	-	-	-	-

Results Transmitted/Date: _____ Fax/Phone By: _____



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E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date: March 2, 2016

Attention: Jay Hurst
OCCU-TEC, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2296OCCA.1
Goodfellow - 104
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 29, 2016. These samples represent the TEM samples for the Goodfellow - 104 - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the twenty-five (25) samples are summarized in Tables I, II, & III. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - 104 - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I17	104-AA-017	NSD	NA	1341	0.0044	BDL (0.0044)*	BDL (15.2)*
I18	104-AA-018	NSD	NA	1341	0.0044	BDL (0.0044)*	BDL (15.2)*
I19	104-AA-019	NSD	NA	1333	0.0044	BDL (0.0044)*	BDL (15.2)*
I20	104-AA-020	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I21	104-AA-021	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I22	104-AA-022	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I23	104-AA-023	NSD	NA	1349	0.0043	BDL (0.0043)*	BDL (15.2)*
I24	104-AA-024	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I25	104-AA-025	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I26	104-AA-026	NSD	NA	1333	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
 Filter diameter: 25mm
 Effective filter Area: 385mm²
 Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
 Grid Openings Analyzed Per Sample: 7
 Area Analyzed Per Sample: 0.0658mm²
 Non-Asbestos Debris: Non-Fibrous Debris

Notes:
 The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
 NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
 SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
 s/mm² - asbestos structures per square millimeter
 s/cc = asbestos structures per cubic centimeter
 * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
 The analysis was performed according to the TEM Method (40CFR part 763).
 This laboratory is in compliance with the specified method.
 Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 3/2/14

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow - 104 - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I27	104-AA-027	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I28	104-AA-028	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I29	104-AA-029	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I30	104-AA-030	NSD	NA	1325	0.0044	BDL (0.0044)*	BDL (15.2)*
I33	104-AA-033	NSD	NA	1449	0.0040	BDL (0.0040)*	BDL (15.2)*
I34	104-AA-034	NSD	NA	1424.90	0.0041	BDL (0.0041)*	BDL (15.2)*
I35	104-AA-035	NSD	NA	1424.90	0.0041	BDL (0.0041)*	BDL (15.2)*
I36	104-AA-036	NSD	NA	1441	0.0041	BDL (0.0041)*	BDL (15.2)*
I37	104-AA-037	NSD	NA	1424.90	0.0041	BDL (0.0041)*	BDL (15.2)*
I38	104-AA-038	NSD	NA	1424.90	0.0041	BDL (0.0041)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director:

(b) (6)

Date: 3/2/12

SUMMARY OF AHERA TEM RESULTS

TABLE III

Outside Samples

Project Name: Goodfellow - 104 - OCC# 916029

McCall and Spero Project No: MSE-2296OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I39	104-AA-039	NSD	NA	1389.20	0.0042	BDL (0.0042)*	BDL (15.2)*
I40	104-AA-040	NSD	NA	1381.20	0.0042	BDL (0.0042)*	BDL (15.2)*
I41	104-AA-041	NSD	NA	1373.10	0.0043	BDL (0.0043)*	BDL (15.2)*
I42	104-AA-042	NSD	NA	1381.20	0.0042	BDL (0.0042)*	BDL (15.2)*
I43	104-AA-043	NSD	NA	1373.10	0.0043	BDL (0.0043)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:
The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 3/2/16



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC.	Telephone #: 816-231-5580	Fax #: 816-994-3470
Contact: Jay Hurst	Client Project Number: 916029	
Relinquished by: Jeff Smith	Date: 2-26-16	Time: 1800
Written Report To: jayhurst@occutec.com ; jsmith@occutec.com		
Project Name: Goodfellow - 704		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour 2-3 Day 4-5 Day Weekend Rush After Hour Rush		

MSE Project #: MSE 22960CCA1 Comments: Intact

Samples Received by: (b) (6) Date: 2/29/16 Time: 1000A

Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763

Samples Prepared By: (b) (6) Method: Burdett & Rood

Samples Analyzed By: (b) (6) Date: 3/1/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
104-AA-016	2nd at North Star	925	1305	220	9.16	1766.6
-017	1st FI at H4	1315	1602	167	8.03	1341
-018	1st at B5	1319	1606	167	8.03	1341
-019	1st at D9	1328	1614	166	8.03	1341 1333
-020	1st at F9	1333	1618	165	8.03	1325
-021	1st at E11	1343	1628	165	8.03	1325
-022	1st at J13	1350	1635	165	8.02	1325
-023	1st at J21	1355	1643	168	8.02	1349
-024	1st at B19	1416	1701	165	8.02	1325
-025	1st at E23	1420	1705	165	8.02	1325
-026	1st at A28	1427	1713	166	8.02	1333
-027	1st at G30	1432	1717	165	8.02	1325
-028	1st at J34	1443	1728	165	8.02	1325
-029	1st at A38	1455	1740	165	8.02	1325
-030	1st at J45	1500	1745	165	8.02	1325

Results Transmitted/Date: _____ Fax/Phone By: _____



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Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

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TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC.	Telephone #: 816-231-5580	Fax #: 816-994-3470
Contact: Jay Hurst	Client Project Number: 916029	
Relinquished by: Jeff Smith	Date: 2-26-16	Time: 1800
Written Report To: jayhurst@occutec.com ; jsmith@occutec.com		
Project Name: Goodfellow - 104		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour <u>2-3 Day</u> 4-5 Day Weekend Rush After Hour Rush		

~~For Laboratory Use Only~~

MSE Project #: MSE- 279600CA.1	Comments: <u>Intact</u>
Samples Received by: (b) (6)	Date: 2/29/16 Time: 1000
Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763	
Samples Prepared By: (b) (6)	Method: Burdett & Rood
Samples Analyzed By:	Date: 3/1/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
104-AA-33	Bsmt @ West Tunnel	918	1218	8.05	180	1449
-34	Bsmt @ G25	925	1222	8.05	177	1424.9
-35	Bsmt @ F25	927	1224	8.05	177	1424.9
-36	Bsmt @ E27	929	1228	8.05	179	1441
-37	Bsmt @ C27	932	1229	8.05	177	1424.9
-38	Bsmt @ A27	935	1232	8.05	177	1424.9
-39	Penthouse - NE Air Han	1100	1353	8.03	173	1389.2
-40	Pent - NW Boiler	1105	1357	8.07	172	1381.2
-41	Pent - Mid Elev Rm	1112	1403	8.03	171	1373.1
-42	Pent - SW PC	1118	1410	8.03	172	1381.2
-43	Pent - SCC - D	1124	1415	8.03	171	1373.1
-44	Blank	-	-	-	-	-

Results Transmitted/Date: _____ Fax/Phone By: _____

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 104E				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104E-AA-001	1st Floor Column M-51	<15.2	s/mm ²	70 s/mm ²
104E-AA-002	1st Floor Column L-50.5	<15.2	s/mm ²	70 s/mm ²
104E-AA-003	1st Floor Column O-47	<15.2	s/mm ²	70 s/mm ²
104E-AA-004	1st Floor Column O-45	<15.2	s/mm ²	70 s/mm ²
104E-AA-005	2nd Floor Column M-43	<15.2	s/mm ²	70 s/mm ²
104E-AA-006	2nd Floor Column O-46	<15.2	s/mm ²	70 s/mm ²
104E-AA-007	2nd Floor Column L-49	<15.2	s/mm ²	70 s/mm ²
104E-AA-008	Basement Southeast	<15.2	s/mm ²	70 s/mm ²
104E-AA-009	Basement Southeast	<15.2	s/mm ²	70 s/mm ²
104E-AA-010	Basement Center	<15.2	s/mm ²	70 s/mm ²
104E-AA-011	Basement Southwest	<15.2	s/mm ²	70 s/mm ²
104E-AA-012	Blank	Not Analyzed		
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104E-PbA-001	1st Floor Column M-51	<3.90	µg/m ³	30 µg/m ³
104E-PbA-002	1st Floor Column L-50.5	<3.31	µg/m ³	30 µg/m ³
104E-PbA-003	1st Floor Column O-47	<3.31	µg/m ³	30 µg/m ³
104E-PbA-004	1st Floor Column O-45	<3.31	µg/m ³	30 µg/m ³
104E-PbA-005	2nd Floor Column M-43	<3.31	µg/m ³	30 µg/m ³
104E-PbA-006	2nd Floor Column O-46	<3.31	µg/m ³	30 µg/m ³
104E-PbA-007	2nd Floor Column L-49	<3.31	µg/m ³	30 µg/m ³
104E-PbA-008	Basement Southeast	<3.31	µg/m ³	30 µg/m ³
104E-PbA-009	Basement Southeast	<3.31	µg/m ³	30 µg/m ³
104E-PbA-010	Basement Center	<3.31	µg/m ³	30 µg/m ³
104E-PbA-011	Basement Southwest	<3.31	µg/m ³	30 µg/m ³
104E-PbA-012	Blank	<2.00	µg	30 µg/m ³

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

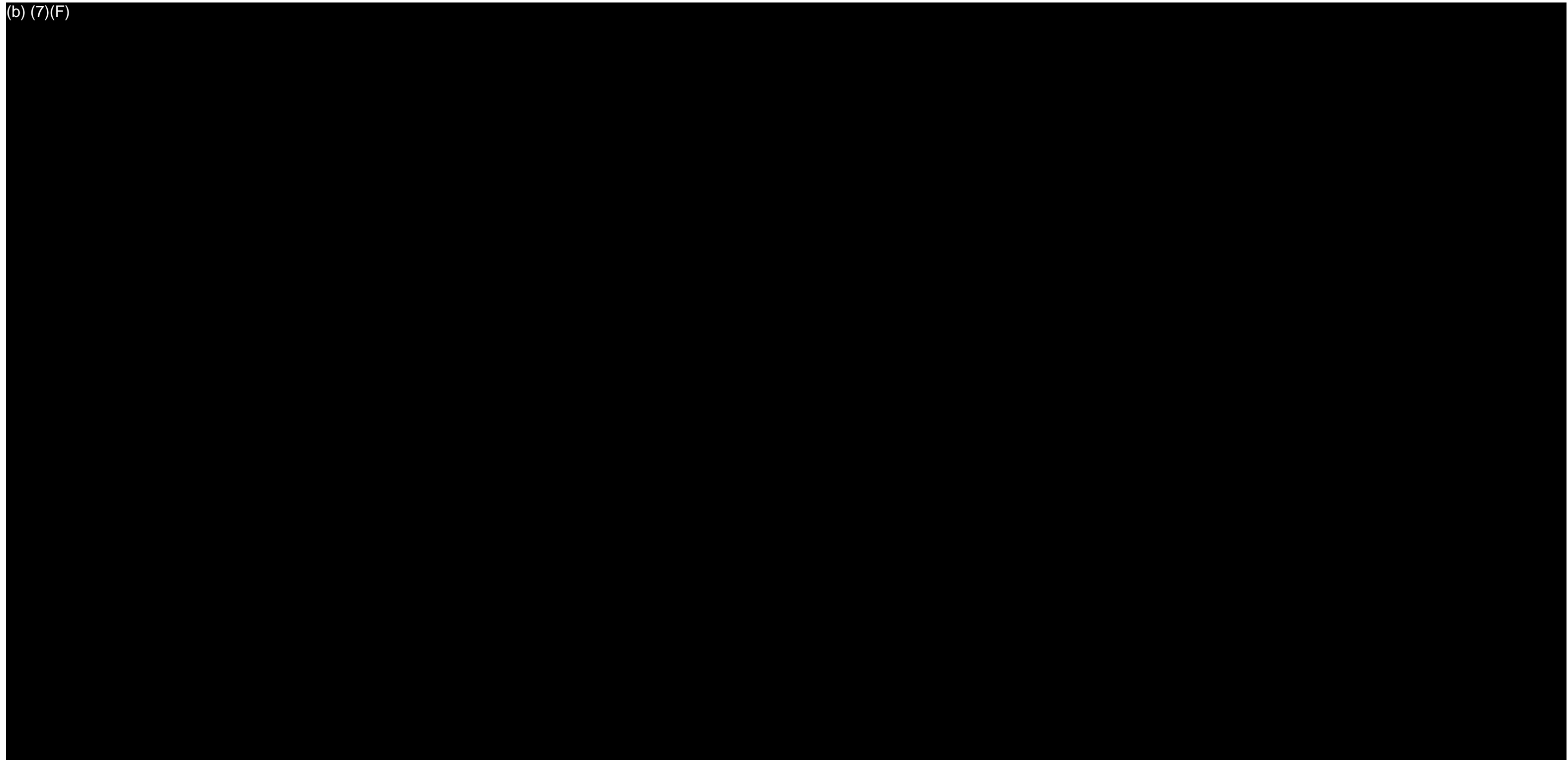
µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 104E				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104E-PbW-001	1st Floor Column M-48 Top of Shelf	<10	µg/ft ²	200 µg/ft ²
104E-PbW-002	1st Floor Column L-45 Window Sill	<10	µg/ft ²	200 µg/ft ²
104E-PbW-003	1st Floor Column L-43 Top of Light Fixture	210	µg/ft ²	200 µg/ft ²
104E-PbW-004	2nd Floor Column L-44 Window Sill	<10	µg/ft ²	200 µg/ft ²
104E-PbW-005	2nd Floor Column M-43.5 Concrete Floor	10	µg/ft ²	200 µg/ft ²
104E-PbW-006	2nd Floor Column L-43 Angle Iron Support	2880	µg/ft ²	200 µg/ft ²
104E-PbW-007	Blank	<10	µg	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104E-PbV-001	1st Floor Column L-43 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
104E-PbV-002	Basement Top of Equipment	<92.9	µg/ft ²	200 µg/ft ²
104E-PbV-003	Basement Top of Spool	175	µg/ft ²	200 µg/ft ²
104E-PbV-004	Basement Floor by East Tunnel	931	µg/ft ²	200 µg/ft ²
104E-PbV-005	1st Floor L-49 Carpet	<92.9	µg/ft ²	200 µg/ft ²
104E-PbV-006	1st Floor O-48 Top of Cabinet	<92.9	µg/ft ²	200 µg/ft ²
104E-PbV-007	2nd Floor Column L-43 Rusted I-beam	4270	µg/ft ²	200 µg/ft ²
104E-PbV-008	2nd Floor Column M-50 I-beam	3530	µg/ft ²	200 µg/ft ²
104E-PbV-009	2nd Floor Column M-52 Top of Ceiling Tile	110	µg/ft ²	200 µg/ft ²
104E-PbV-010	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

(b) (7)(F)

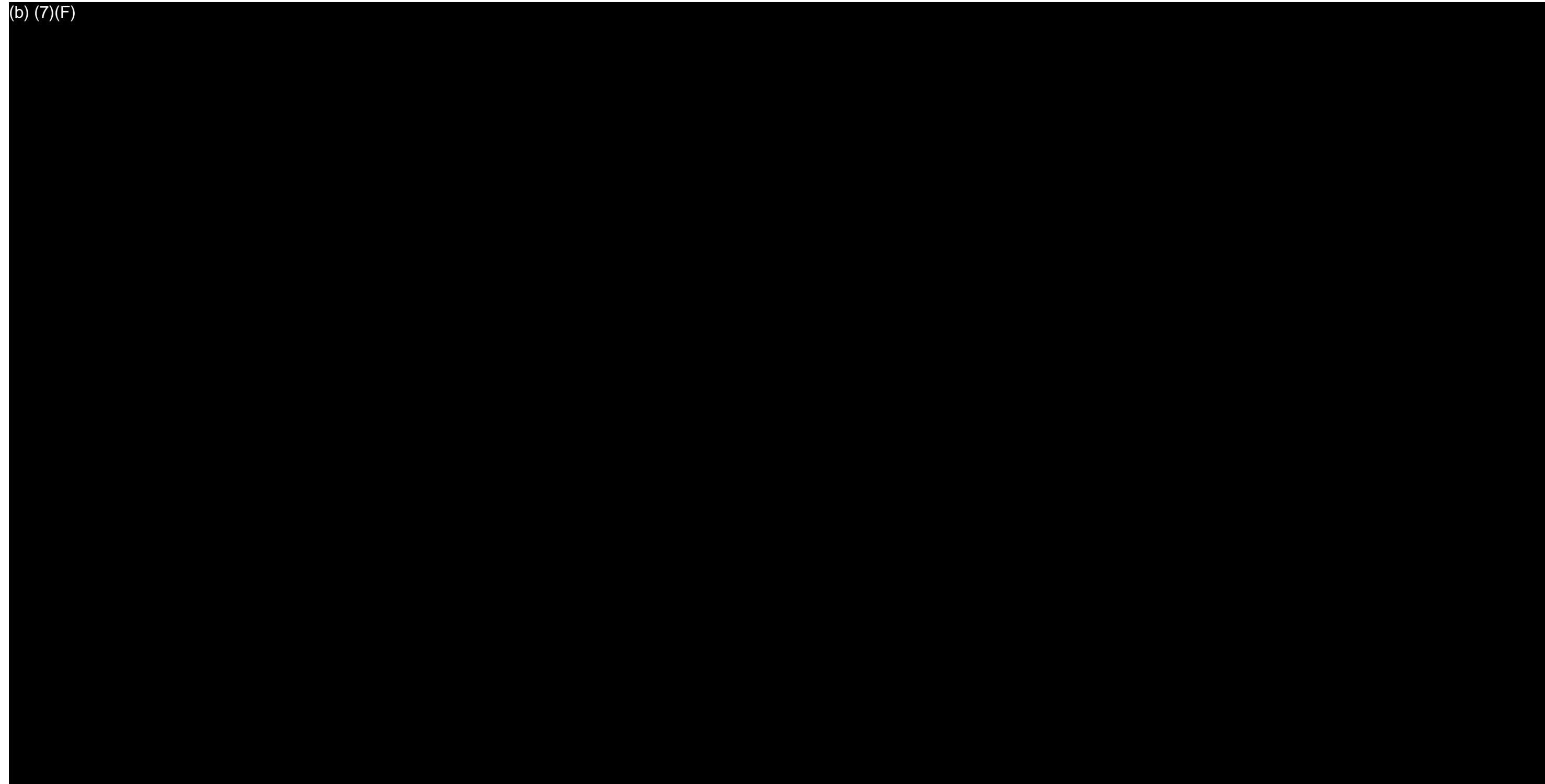


SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0610 (104E) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS



(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0610 (104E) - 2nd FLOOR		DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION		SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025		SCALE:	NTS
		916029	

(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE:
GOODFELLOW MO0610 (104E) - 1st FLOOR

CLIENT NAME:
GENERAL SERVICES ADMINISTRATION

PROJECT NAME:
GOODFELLOW GS-P-16-16-GZ7025

DRAWN by: JWH

SUB. DATE: 03/04/16

SCALE: NTS

916029



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159458

Matrix: Air
Received: 02/22/16
Analyzed: 02/23/16
Reported: 02/24/16

Attn:
Project: Goodfellow
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume
Parameter	Method		Total	RL*	Conc.	8 Hr TWA
159458-001	104E-PbA-001	1st Floor M51	02/17/16	165 min	3.11 L/min	513 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.90 µg/m3	<1.34 µg/m3
159458-002	104E-PbA-002	1st Floor L50.5	02/17/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159458-003	104E-PbA-003	1st Floor O-47	02/17/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159458-004	104E-PbA-004	1st Floor O-45	02/17/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159458-005	104E-PbA-005	2nd M-43	02/17/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159458-006	104E-PbA-006	2nd O-46	02/17/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159458-007	104E-PbA-007	2nd L-49	02/17/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159458-008	104E-PbA-008	Basement SE	02/17/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159458-009	104E-PbA-009	Basement SE	02/17/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159458-010	104E-PbA-010	Basement Center	02/17/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159458-011	104E-PbA-011	Basement SW	02/17/16	165 min	3.67 L/min	606 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159458-012	104E-PbA-012	Blank	02/17/16			
Lead	NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH
159458-02/24/16 09:14 AM

(b) (6)

Reviewed By: **Abisola Kasali**
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



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804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

159458



V:\159\159458

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) to day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type')	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104E-PBA-001	2/17		1 st Floor MS1	3.11		0935	1223	3.11	3.11	513.15
104E-PBA-002			1 st Floor L50.5			0950	1235	3.67	3.67	
104E-PBA-003			1 st Floor O-47			1005	1250	3.67	3.67	
104E-PBA-004			1 st Floor O-45			1010	1255	3.67	3.67	
104E-PBA-005			2 nd M-43			1032	1317	3.67	3.67	
104E-PBA-006			2 nd O-46			1037	1322	3.67	3.67	
104E-PBA-007			2 nd L-49			1045	1330	3.67	3.67	
104E-PBA-008			Basement SE			1108	1353	3.67	3.67	
104E-PBA-009			Basement SE			1108	1353	3.67	3.67	
104E-PBA-010			Basement Center			1108	1353	3.67	3.67	

*Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>Justin Arnold</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>12-17-16</u>	Relinquished to lab by NAME <u>Justin Hurst</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-19, 1600</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2235</u>
--	---	--

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Term



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 www.slabinc.com e-mail: info@slabinc.com

Submitting Co. OCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>
		FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:		

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type¹)	Wiped Area (ft²)	pH / Temp *	Time²		Flow Rate³		Total⁴ Air
						Start	Stop	Start	Stop	
104E-P6A-011	2/17		Basement SW			1108	1353	3.67	3.67	
104E-P6A-012	↓		Blank	-	-	-	-	-	-	-

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min × flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: <u>Justin Arnold</u> TITLE: <u>(b) (6)</u> DATE / TIME: <u>2-17-14</u>	Relinquished to lab by NAME: <u>Keron Uvford</u> SIGNATURE: <u>(b) (6)</u> DATE / TIME: <u>2-19, 1600</u>	<u>2-22-16</u> <u>(b) (6)</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2235</u>
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> CI <input type="checkbox"/> R <input type="checkbox"/> S <input checked="" type="checkbox"/> Re			

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159406

Matrix Wipe
Received 02/22/16
Analyzed 02/22/16
Reported 02/23/16

Project Goodfellow 104E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter	Method	Area	Total	Conc.	RL*	
159406-001	104E-PbV-001	1st FL L43 Ceiling Tile	02/17/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159406-002	104E-PbV-002	Basement Top Of Equip	02/17/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159406-003	104E-PbV-003	Basement Top Of Spool	02/17/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	18.9 µg/wipe	175 µg/ft2	92.9 µg/ft2	
159406-004	104E-PbV-004	Basement Floor By Tunnel	02/17/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	100 µg/wipe	931 µg/ft2	92.9 µg/ft2	
159406-005	104E-PbV-005	1st FL L49 Carpet	02/17/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159406-006	104E-PbV-006	1st FL O48 Cabinet	02/17/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159406-007	104E-PbV-007	2nd FL L43 I Beam	02/17/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	459 µg/wipe	4270 µg/ft2	92.9 µg/ft2	
159406-008	104E-PbV-008	2nd FL M50 I Beam	02/17/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	380 µg/wipe	3530 µg/ft2	92.9 µg/ft2	
159406-009	104E-PbV-009	2nd FL M52 Ceiling Tile	02/17/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	11.8 µg/wipe	110 µg/ft2	92.9 µg/ft2	
159406-010	104E-PbV-010	Blank	02/17/16			
Lead	EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 µg/wipe	
159406-011	104E-Pbw-001	M48 1st Floor	02/17/16			

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159406

Matrix Wipe
Received 02/22/16
Analyzed 02/22/16
Reported 02/23/16

Project Goodfellow 104E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter		Method					
Lead		EPA 7000B / 3050B		1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159406-012	104E-Pbw-002	1st FL L45 Sill	02/17/16				
Lead		EPA 7000B / 3050B		1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159406-013	104E-Pbw-003	1st FLK L43 Light	02/17/16				
Lead		EPA 7000B / 3050B		1.00 ft2	210 µg/wipe	210 µg/ft2	10.0 µg/ft2
159406-014	104E-Pbw-004	2nd FL L44 Win Sill	02/17/16				
Lead		EPA 7000B / 3050B		1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159406-015	104E-Pbw-005	2nd FL M43.5 FI	02/17/16				
Lead		EPA 7000B / 3050B		1.00 ft2	10.0 µg/wipe	10.0 µg/ft2	10.0 µg/ft2
159406-016	104E-Pbw-006	2nd FL L43 I Beam	02/17/16				
Lead		EPA 7000B / 3050B		1.00 ft2	2880 µg/wipe	2880 µg/ft2	100 µg/ft2
159406-017	104E-Pbw-007	Blank	02/17/16				
Lead		EPA 7000B / 3050B			<10.0 µg/wipe		10.0 µg/wipe

Analyst MHB
159406-02/23/16 09:55 AM

(b) (6)

Reviewed By **Abisola Kasali**
Metals Supervisor

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com



Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 104 E	Special Instructions [Include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type')	Wiped Area (ft²)	pH / Temp *	Time²		Flow Rate³		Total⁴ Air
						Start	Stop	Start	Stop	
104E-PbU-001	2-17-14		1 st floor L43 Ceiling Tile	100cm²						
104E-PbU-002			Basement Top of Equipment							
104E-PbU-003			Basement Top of Spool							
104E-PbU-004			Basement floor by Tunnel							
104E-PbU-005			1 st floor L49 Carpet							
104E-PbU-006			1 st floor 048 Cabinet							
104E-PbU-007			2 nd floor L43 I Beam							
104E-PbU-008			2 nd floor M50 I Beam							
104E-PbU-009			2 nd floor M52 Ceiling Tile							
104E-PbU-010			BLANK							

*Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: <u>Josh Arnold</u> SIGNATURE: <u>(b) (6)</u> DATE / TIME: <u>2-17-14</u>	Relinquished to lab by NAME: <u>(b) (6)</u> SIGNATURE: <u>(b) (6)</u> DATE / TIME: <u>2-19, 1600</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> HD <input type="checkbox"/> DB <input type="checkbox"/> UPS <input type="checkbox"/> USM WB: <u>2235</u>
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Term



SCHNEIDER LABORATORIES GLOBAL, INC.

WO Label

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 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 104E	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104E-P6W-001	2/17	0940	M48 1 st Floor Refry	1						
104E-P6W-002		0955	1 st Floor L45 Sill	1						
104E-P6W-003		1020	1 st Floor L43 Light	1						
104E-P6W-004		1040	2 nd Floor L44 Window Sill	1						
104E-P6W-005		1050	2 nd Floor M43.5 Floor	1						
104E-P6W-006		1055	2 nd Floor L43 I-beam	1						
104E-P6W-007		-	Blank	-	-	-	-	-	-	-
104E-P6W										

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Justin Arnold SIGNATURE (b) (6) DATE / TIME 2-17-19	Relinquished to lab by NAME [Redacted] SIGNATURE (b) (6) DATE / TIME 2-19, 10:00	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2235
--	--	--

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and



**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mnelabs.com • Website: www.mnelabs.com

Date: February 25, 2016

Attention: Jay Hurst
OCCU-TEC INC.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2226OCCA.3
Goodfellow Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 22, 2016. These samples represent the TEM samples for the Goodfellow Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Tables I and II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Dear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I001	104E-AA-001	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I002	104E-AA-002	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I003	104E-AA-003	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I004	104E-AA-004	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I005	104E-AA-005	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I006	104E-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I007	104E-AA-007	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I008	104E-AA-008	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I009	104E-AA-009	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I010	104E-AA-010	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry

s/mm² - asbestos structures per square millimeter

s/cc = asbestos structures per cubic centimeter

* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director:

(b) (6)

Date:

2/25/12

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I011	104E-AA-011	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director: _____

Date: 2/25/16



McCall and Spero
Environmental, Inc.
 Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC. Telephone #: 816-231-5580 Fax #: 816-994-3470
 Contact: Jay Hurst Client Project Number: 916029
 Relinquished by: (b) (6) Date: 2-17-16 Time: 1200
 Written Report To: jayhurst@occutec.com ; jsmith@occutec.com
 Project Name: Goodfellow
 Turn-Around Time: (Circle One) 4 Hour | 6-8 Hour(same day) | 24 Hour | 26 Day | 4-5 Day | Weekend Rush | After Hour Rush

MSE Project #: MSE-2226 OCCA.3 Comments: Intact
 Samples Received by: (b) (6) Date: 2-22-16 Time: 9:00 AM
 Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763
 Samples Prepared By: (b) (6) Method: Burdett & Rood
 Samples Analyzed By: (b) (6) Date: 2/25/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
104E-AA-001	1 st Floor / M51	0938	1224 1223	165	8.03	1324.95
104E-AA-002	1 st Floor / SO.52	0950	1223 1235	165	8.03	1324.95
104E-AA-003	1 st Floor / O-47	1005	1250	165	8.03	1324.95
104E-AA-004	1 st Floor / O-45	1010	1255	165	8.03	1324.95
104E-AA-005	2 nd Floor / M-43	1032	1317	165	8.03	1324.95
104E-AA-006	2 nd Floor / O-46	1037	1322	165	8.03	1324.95
104E-AA-007	2 nd Floor / L-49	1045	1330	165	8.03	1324.95
104E-AA-008	Basement SE	1108	1353	165	8.03	1324.95
104E-AA-009	Basement SE	1108	1353	165	8.03	1324.95
104E-AA-010	Basement Center	1108	1353	165	8.03	1324.95
104E-AA-011	Basement SW	1108	1353	165	8.03	1324.95
104E-AA-012	Blank	-	-	-	-	-

Results Transmitted/Date: _____ Fax/Phone By: _____

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 104F				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104F-AA-001	1st Floor Column P-35	<17.7	s/mm ²	70 s/mm ²
104F-AA-002	1st Floor Column L-31	<17.7	s/mm ²	70 s/mm ²
104F-AA-003	1st Floor Column P-29	<17.7	s/mm ²	70 s/mm ²
104F-AA-004	1st Floor Column O-35	<17.7	s/mm ²	70 s/mm ²
104F-AA-005	2nd Floor Column L-32	<17.7	s/mm ²	70 s/mm ²
104F-AA-006	2nd Floor Column M-30	<17.7	s/mm ²	70 s/mm ²
104F-AA-007	2nd Floor Column M-35	<17.7	s/mm ²	70 s/mm ²
104F-AA-008	Basement Column O-32	<17.7	s/mm ²	70 s/mm ²
104F-AA-009	Basement Column L-33	<17.7	s/mm ²	70 s/mm ²
104F-AA-010	Basement South Tunnel	<17.7	s/mm ²	70 s/mm ²
104F-AA-011	Basement North Tunnel	<17.7	s/mm ²	70 s/mm ²
104F-AA-012	Blank	Not Analyzed		
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104F-PbA-001	1st Floor Column P-35	<3.22	µg/m ³	30 µg/m ³
104F-PbA-002	1st Floor Column L-31	<3.32	µg/m ³	30 µg/m ³
104F-PbA-003	1st Floor Column P-29	<3.46	µg/m ³	30 µg/m ³
104F-PbA-004	1st Floor Column O-35	<3.55	µg/m ³	30 µg/m ³
104F-PbA-005	2nd Floor Column L-32	<3.75	µg/m ³	30 µg/m ³
104F-PbA-006	2nd Floor Column M-30	<3.82	µg/m ³	30 µg/m ³
104F-PbA-007	2nd Floor Column M-35	<3.93	µg/m ³	30 µg/m ³
104F-PbA-008	Basement Column O-32	<2.97	µg/m ³	30 µg/m ³
104F-PbA-009	Basement Column L-33	<2.96	µg/m ³	30 µg/m ³
104F-PbA-010	Basement South Tunnel	<2.96	µg/m ³	30 µg/m ³
104F-PbA-011	Basement North Tunnel	<3.25	µg/m ³	30 µg/m ³
104F-PbA-012	Blank	<2.00	µg	30 µg/m ³

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 104F				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104F-PbW-001	1st Floor Column L-35.5 Hallway	<10	µg/ft ²	200 µg/ft ²
104F-PbW-002	1st Floor Column O-32 Office	<10	µg/ft ²	200 µg/ft ²
104F-PbW-003	1st Floor Column O-27.5 Entrance	<10	µg/ft ²	200 µg/ft ²
104F-PbW-004	2nd Floor Column M-35 Phone Room	23.4	µg/ft ²	200 µg/ft ²
104F-PbW-005	2nd Floor Column P-28 I-Beam	2950	µg/ft ²	200 µg/ft ²
104F-PbW-006	2nd Floor Column M-27.5 Storage Room	<10	µg/ft ²	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
104F-PbV-001	Basement Column O-32 Floor	1650	µg/ft ²	200 µg/ft ²
104F-PbV-002	Basement North Tunnel Floor	336	µg/ft ²	200 µg/ft ²
104F-PbV-003	Basement North Tunnel Floor	<92.9	µg/ft ²	200 µg/ft ²
104F-PbV-004	1st Floor Column O-35 Mechanical Room Floor	217	µg/ft ²	200 µg/ft ²
104F-PbV-005	1st Floor Column N-34.5 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
104F-PbV-006	1st Floor Column M-31 Carpet	<92.9	µg/ft ²	200 µg/ft ²
104F-PbV-007	2nd Floor Column L-35.5 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
104F-PbV-008	2nd Floor Column P-28 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
104F-PbV-009	2nd Floor Column L-27 Floor	<92.9	µg/ft ²	200 µg/ft ²
104F-PbV-010	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0611 (104F) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS

(b) (7)(F)

SAMPLE LEGEND
 ▲ = SAMPLE LOCATION
 AA = ASBESTOS AIR SAMPLE
 PbA = LEAD AIR SAMPLE
 PbW = LEAD WIPE SAMPLE
 PbV = LEAD MICRO-VAC SAMPLE



TITLE:
GOODFELLOW MO0611 (104F) - 2nd FLOOR

CLIENT NAME:
GENERAL SERVICES ADMINISTRATION

PROJECT NAME:
GOODFELLOW GS-P-16-16-GZ7025

DRAWN by: JWH

SUB. DATE: 03/04/16

SCALE: NTS

916029

(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE:
GOODFELLOW MO0611 (104F) - 1st FLOOR

CLIENT NAME:
GENERAL SERVICES ADMINISTRATION

PROJECT NAME:
GOODFELLOW GS-P-16-16-GZ7025

DRAWN by: JWH

SUB. DATE: 03/04/16

SCALE: NTS

916029



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159645
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Matrix Wipe
Received 02/23/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow Federal Center-104F
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159645-001	104F-PbV-001	Bsmt Floor	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	177 µg/wipe	1650 µg/ft2	92.9 µg/ft2
159645-002	104F-PbV-002	Bsmt Floor	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	36.2 µg/wipe	336 µg/ft2	92.9 µg/ft2
159645-003	104F-PbV-003	Bsmt Floor	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159645-004	104F-PbV-004	1st Fl Mech Rm Floor	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	23.4 µg/wipe	217 µg/ft2	92.9 µg/ft2
159645-005	104F-PbV-005	1st Ceiling Tile	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159645-006	104F-PbV-006	1st Carpet	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159645-007	104F-PbV-007	2nd Ceiling Tile	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159645-008	104F-PbV-008	2nd Ceiling Tile	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159645-009	104F-PbV-009	2nd Floor	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159645-010	104F-PbV-010	Blank	02/17/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 µg/wipe

Analyst MHB
159645-02/23/16 04:20 PM

(b) (6)

Reviewed By **Derek Jackson**
Analyst

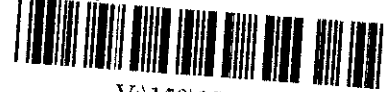
Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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159645



VA159A159645

Submitting Co. OCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 104F	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Micro-Vac Dust	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield)	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type')	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104F-P6V-001	2-17-16	1500	Bsmt - Floor	100cm ²						
-002			Bsmt - Floor	100cm ²						
-003			Bsmt - Floor	100cm ²						
-004			1st Fl- Mech Rm Floor	100cm ²						
-005			1st - Ceiling Tile	100cm ²						
-006			1st - Carpet	100cm ²						
-007			2nd - Ceiling Tile	100cm ²						
-008			2nd - Ceiling Tile	100cm ²						
-009			2nd - Floor	100cm ²						
-010			Blank	-						

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-17-16 1500</u>	Relinquished to lab by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-21-16 1600</u>	22376 (b) (6)	Sample Disposal <small>If samples over req. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2084</u>
---	---	------------------	---

Sample return requested Ambient temp Ice Cl R S X Y

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Temp



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159644

Matrix Wipe
Received 02/23/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow 104F
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159644-001	104F-PbW-001	1st FI Hallway	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159644-002	104F-PbW-002	1st FI Office	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159644-003	104F-PbW-003	1st FI Entrance	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159644-004	104F-PbW-004	2nd FI Phone Rm	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	23.4 µg/wipe	23.4 µg/ft2	10.0 µg/ft2
159644-005	104F-PbW-005	2nd FI I Beam	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	2950 µg/wipe	2950 µg/ft2	100 µg/ft2
159644-006	104F-PbW-006	2nd FI Storage Rm	02/17/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2

Analyst MHB
159644-02/23/16 04:21 PM

(b) (6)

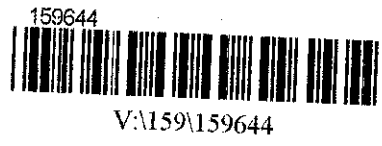
Reviewed By **Derek Jackson**
Analyst

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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www.slabin.com e-mail: info@slabin.com



Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 104F	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day † <input type="checkbox"/> 1 business day † <input type="checkbox"/> 2 business days † <input checked="" type="checkbox"/> 3 business days † <input type="checkbox"/> 5 business days † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam
		FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:		

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104F-Pbw-001	2-17-16	1500	1st Fl - Hallway	1 SF						
-002			1st Fl - Office	1 SF						
-003			1st Fl - Entrance	1 SF						
-004			2nd Fl - Phone Rm	1 SF						
-005			2nd Fl - I Beam	1 SF						
-006			2nd Fl - Storage Rm	1 SF						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: Jeff Smith SIGNATURE: (b) (6) DATE / TIME: 2-17-16 1800	Relinquished to lab by NAME: Jeff Smith SIGNATURE: (b) (6) DATE / TIME: 2-21-16 1800	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB VWB: 2-28-16
--	--	--

* Temperature taken with IR Gun, A. **Required. Chain-of-Custody documentation continued internally within lab. Terms



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159639

Matrix: Air
Received: 02/23/16
Analyzed: 02/23/16
Reported: 02/24/16

Attn:
Project: Goodfellow - 104F
Location: St. Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume
Parameter	Method		Total	RL*	Conc.	8 Hr TWA
159639-001	104F-PbA-001	1st FL P35	02/17/16	204 min	3.05 L/min	622 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.22 µg/m3	<1.37 µg/m3
159639-002	104F-PbA-002	1st FL L31	02/17/16	198 min	3.05 L/min	604 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.32 µg/m3	<1.37 µg/m3
159639-003	104F-PbA-003	1st FL P29	02/17/16	190 min	3.05 L/min	580 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.46 µg/m3	<1.37 µg/m3
159639-004	104F-PbA-004	1st FL O35	02/17/16	185 min	3.05 L/min	564 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.55 µg/m3	<1.37 µg/m3
159639-005	104F-PbA-005	2nd FL L32	02/17/16	175 min	3.05 L/min	534 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.75 µg/m3	<1.37 µg/m3
159639-006	104F-PbA-006	2nd FL M30	02/17/16	172 min	3.05 L/min	525 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.82 µg/m3	<1.37 µg/m3
159639-007	104F-PbA-007	2nd FL M35	02/17/16	167 min	3.05 L/min	509 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.93 µg/m3	<1.37 µg/m3
159639-008	104F-PbA-008	Bsmt O32	02/17/16	221 min	3.05 L/min	674 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<2.97 µg/m3	<1.37 µg/m3
159639-009	104F-PbA-009	Bsmt L33	02/17/16	222 min	3.05 L/min	677 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<2.96 µg/m3	<1.37 µg/m3
159639-010	104F-PbA-010	Bsmt Tunnel South	02/17/16	222 min	3.05 L/min	677 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<2.96 µg/m3	<1.37 µg/m3
159639-011	104F-PbA-011	Bsmt Tunnel North	02/17/16	202 min	3.05 L/min	616 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.25 µg/m3	<1.37 µg/m3
159639-012	104F-PbA-012	Blank	02/17/16			
Lead	NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH
159639-02/24/16 09:30 AM

(b) (6)

Reviewed By: Abisola Kasali
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



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 www.slabin.com e-mail: info@slabin.com

159639



V:\159\159639

Submitting Co. OCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@ocutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 104 F	Special Instructions (include requests for special reporting or data packages)	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day † <input type="checkbox"/> 1 business day † <input type="checkbox"/> 2 business days † <input checked="" type="checkbox"/> 3 business days † <input type="checkbox"/> 5 business days † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam
		FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:		

Sample #	Date Sampled*	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type*)	Wiped Area (ft²)	pH / Temp *	Time²		Flow Rate³		Total⁴ Air
						Start	Stop	Start	Stop	
104F-P6A-001	2-17-16	900	1st Fl - P35			9:00	1224	3.05	3.05	622.2
-002			1st - L31			914	1232	3.05	3.05	603.9
-003			1st - P29			925	1235	3.05	3.05	579.5
-004			1st - O35			935	1240	3.05	3.05	564.25
-005			2nd Fl - L32			950	1245	3.05	3.05	533.75
-006			2nd - M30			956	1248	3.05	3.05	524.60
-007			2nd - M35			1007	1254	3.05	3.05	509.35
-008			Bsmt - O32			1107	1448	3.05	3.05	674.05
-009			Bsmt - L33			1110	1452	3.05	3.05	677.1
-010			Bsmt - Tunnel - South			1116	1458	3.05	3.05	677.1

*Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [Time in min x flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Jeff Smith SIGNATURE (b) (6) DATE / TIME 2-17-16/900	Relinquished to lab by Jeff Smith NAME SIGNATURE (b) (6) DATE / TIME 2-21-16/1800	22376 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2284
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> CI <input type="checkbox"/> R <input checked="" type="checkbox"/> S <input type="checkbox"/> X			

* Temperature taken with IR Gun A.

**Required.

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 6.



SCHNEIDER LABORATORIES GLOBAL, INC.

WO Label

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

2 of 2

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 104F	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † * Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.	All samples on form should be of SAME matrix type. Use additional forms as needed. <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
104F-PBA-011	2-17-16		Bsmt-Tunnel-North			1133	1455	3.05	3.05	616.1
-012			Blank							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters (time in min x flow in L/min)

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Jeff Smith SIGNATURE (b) (6) DATE / TIME 2-17-16	Relinquished to lab by Jeff Smith NAME (b) (6) SIGNATURE (b) (6) DATE / TIME 2-21-16 / 1800	22376 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input checked="" type="checkbox"/> HD <input type="checkbox"/> DB WB: 2084
--	---	-------------------------	---

* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within lab. Terms



**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 26, 2016

Attention: Jay Hurst
OCCU-TEC, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2236OCCA
Goodfellow-104F Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 23, 2016. These samples represent the TEM samples for the Goodfellow-104F Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow-104F Project - OCC# 916029

McCall and Spero Project No: MSE-2236OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	104F-AA-01	NSD	NA	1642.20	0.0042	BDL (0.0042)*	BDL (17.7)*
I02	104F-AA-02	NSD	NA	1593.90	0.0043	BDL (0.0043)*	BDL (17.7)*
I03	104F-AA-03	NSD	NA	1529.50	0.0045	BDL (0.0045)*	BDL (17.7)*
I04	104F-AA-04	NSD	NA	1452.60	0.0047	BDL (0.0047)*	BDL (17.7)*
I05	104F-AA-05	NSD	NA	1416.80	0.0048	BDL (0.0048)*	BDL (17.7)*
I06	104F-AA-06	NSD	NA	1400.70	0.0049	BDL (0.0049)*	BDL (17.7)*
I07	104F-AA-07	NSD	NA	1336.30	0.0051	BDL (0.0051)*	BDL (17.7)*
I08	104F-AA-08	NSD	NA	1787.10	0.0038	BDL (0.0038)*	BDL (17.7)*
I09	104F-AA-09	NSD	NA	1787.10	0.0038	BDL (0.0038)*	BDL (17.7)*
I10	104F-AA-10	NSD	NA	1787.10	0.0038	BDL (0.0038)*	BDL (17.7)*

Filter Type: MCE
 Filter diameter: 25mm
 Effective filter Area: 385mm²
 Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
 Grid Openings Analyzed Per Sample: 6
 Area Analyzed Per Sample: 0.0564mm²
 Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
 NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
 SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
 s/mm² - asbestos structures per square millimeter
 s/cc = asbestos structures per cubic centimeter
 * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 2/26/16

McCall and Spero Environmental, Inc.

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow-104F Project - OCC# 916029

McCall and Spero Project No: MSE-2236OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I11	104F-AA-11	NSD	NA	1626.10	0.0042	BDL (0.0042)*	BDL (17.7)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 6
Area Analyzed Per Sample: 0.0564mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director: (b) (6)

Date: 2/26/16



McCall and Spero
Environmental, Inc.
 Specialists in Microanalysis

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 Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC. Telephone #: 816-231-5580 Fax #: 816-994-3470
 Contact: Jay Hurst Client Project Number: 916029
 Relinquished by: Jeff Smith, R Date: 2-17-16 Time: 1800
 Written Report To: jayhurst@occutec.com ; jsmith@occutec.com
 Project Name: Goodfellow - 104 F
 Turn-Around Time: (Circle One) 4 Hour | 6-8 Hour(same day) | 24 Hour | 2-3 Day | 4-5 Day | Weekend Rush | After Hour Rush

MSE Project #: MSE-273100CCA Comments: _____
 Samples Received by: (b) (6) Date: 02/23/16 Time: 10:00AM
 Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763
 Samples Prepared By: _____ Method: Burdett & Rood
 Samples Analyzed By: _____ Date: _____

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
104F-AA-01	1st FI - P35	9:00	1224	204	8.05	1642.2
-AA-02	1st FI - L31	9:14	1232	198	8.05	1593.9
-AA-03	1st FI - P29	924	1235	190	8.05	1529.5
-AA-04	1st FI - O35	934	1240	186	7.81	1452.6
-AA-05	2nd FI - L32	949	1245	176	8.05	1416.8
-AA-06	2nd FI - M30	954	1248	174	8.05	1400.7
-AA-07	2nd FI - M35	1006	1252	166	8.05	1336.3
-AA-08	Bsmt - O32	1106	1448	222	8.05	1787.1
-AA-09	Bsmt - L33	1110	1452	222	8.05	1787.1
-AA-10	Bsmt - South Tunnel	1116	1458	222	8.05	1787.1
-AA-11	Bsmt - North Tunnel	1133	1455	202	8.05	1626.1
-AA-12	Blank					

Results Transmitted/Date: _____ Fax/Phone By: _____

BUILDING 105, 105E, 105F, 105L

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 105				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105-AA-001	1st Floor Column H-53	<15.2	s/mm ²	70 s/mm ²
105-AA-002	1st Floor Column C-49	<15.2	s/mm ²	70 s/mm ²
105-AA-003	1st Floor Column C-45	<15.2	s/mm ²	70 s/mm ²
105-AA-004	1st Floor Column G-49	<15.2	s/mm ²	70 s/mm ²
105-AA-005	1st Floor Column J-35	<15.2	s/mm ²	70 s/mm ²
105-AA-006	1st Floor Column G-38	<15.2	s/mm ²	70 s/mm ²
105-AA-007	1st Floor Column E-33	<15.2	s/mm ²	70 s/mm ²
105-AA-008	1st Floor Column B-32	<15.2	s/mm ²	70 s/mm ²
105-AA-009	1st Floor Column F-25	<15.2	s/mm ²	70 s/mm ²
105-AA-010	Penthouse Air Handler #2	<15.2	s/mm ²	70 s/mm ²
105-AA-011	Penthouse Center West	<15.2	s/mm ²	70 s/mm ²
105-AA-012	Penthouse South	<15.2	s/mm ²	70 s/mm ²
105-AA-013	Penthouse Chiller Room	<15.2	s/mm ²	70 s/mm ²
105-AA-014	Penthouse Boiler Room	<15.2	s/mm ²	70 s/mm ²
105-AA-015	1st Floor Column G-26	<15.2	s/mm ²	70 s/mm ²
105-AA-016	1st Floor Column H-20	<15.2	s/mm ²	70 s/mm ²
105-AA-017	1st Floor Column C-17	<15.2	s/mm ²	70 s/mm ²
105-AA-018	1st Floor Column F-15	<15.2	s/mm ²	70 s/mm ²
105-AA-019	1st Floor Column G-10	<15.2	s/mm ²	70 s/mm ²
105-AA-020	1st Floor Column F-1.5	<15.2	s/mm ²	70 s/mm ²
105-AA-021	1st Floor Column B-8	<15.2	s/mm ²	70 s/mm ²
105-AA-022	1st Floor Column C-13	<15.2	s/mm ²	70 s/mm ²
105-AA-023	2nd Floor Column G-39	<15.2	s/mm ²	70 s/mm ²
105-AA-024	2nd Floor Column D-4	<15.2	s/mm ²	70 s/mm ²
105-AA-025	2nd Floor Column B-12	<15.2	s/mm ²	70 s/mm ²
105-AA-026	2nd Floor Column F-13.5	<15.2	s/mm ²	70 s/mm ²
105-AA-027	2nd Floor Column G-15.5	<15.2	s/mm ²	70 s/mm ²
105-AA-028	2nd Floor Column J-23.5	<15.2	s/mm ²	70 s/mm ²
105-AA-029	2nd Floor Column G-26	<15.2	s/mm ²	70 s/mm ²
105-AA-030	2nd Floor Column B-28	<15.2	s/mm ²	70 s/mm ²
105-AA-031	2nd Floor Column B-39	<15.2	s/mm ²	70 s/mm ²
105-AA-032	2nd Floor Column J-39	<15.2	s/mm ²	70 s/mm ²
105-AA-033	2nd Floor Column F-34	<15.2	s/mm ²	70 s/mm ²
105-AA-034	2nd Floor Column D-32	<15.2	s/mm ²	70 s/mm ²
105-AA-035	2nd Floor Column F-52	<15.2	s/mm ²	70 s/mm ²
105-AA-036	2nd Floor Column H-49	<15.2	s/mm ²	70 s/mm ²
105-AA-037	2nd Floor Column E-42.5	<15.2	s/mm ²	70 s/mm ²
105-AA-038	2nd Floor Column C-43	<15.2	s/mm ²	70 s/mm ²
105-AA-039	Basement Center West	<15.2	s/mm ²	70 s/mm ²
105-AA-040	Basement Center East	<15.2	s/mm ²	70 s/mm ²
105-AA-041	Basement 2 South West	<15.2	s/mm ²	70 s/mm ²
105-AA-042	Basement 2 Center West	15.2	s/mm ²	70 s/mm ²
105-AA-043	Basement 2 Center East	<15.2	s/mm ²	70 s/mm ²
105-AA-044	Basement 4 Column B-41	<15.2	s/mm ²	70 s/mm ²
105-AA-045	Blank		Not Analyzed	

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
4300 Goodfellow Boulevard
St. Louis , Missouri 63120

BUILDING 105				
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105-PbA-001	1st Floor Column H-53	<3.31	µg/m ³	30 µg/m ³
105-PbA-002	1st Floor Column C-49	<3.31	µg/m ³	30 µg/m ³
105-PbA-003	1st Floor Column C-45	<3.31	µg/m ³	30 µg/m ³
105-PbA-004	1st Floor Column G-49	<3.31	µg/m ³	30 µg/m ³
105-PbA-005	1st Floor Column J-35	<3.31	µg/m ³	30 µg/m ³
105-PbA-006	1st Floor Column G-38	<3.31	µg/m ³	30 µg/m ³
105-PbA-007	1st Floor Column E-33	<3.31	µg/m ³	30 µg/m ³
105-PbA-008	1st Floor Column B-32	<3.31	µg/m ³	30 µg/m ³
105-PbA-009	1st Floor Column F-25	<3.31	µg/m ³	30 µg/m ³
105-PbA-010	Penthouse Air Handler #2	<2.84	µg/m ³	30 µg/m ³
105-PbA-011	Penthouse Center West	<2.86	µg/m ³	30 µg/m ³
105-PbA-012	Penthouse South	<3.31	µg/m ³	30 µg/m ³
105-PbA-013	Penthouse Chiller Room	<3.9	µg/m ³	30 µg/m ³
105-PbA-014	Penthouse Boiler Room	<3.31	µg/m ³	30 µg/m ³
105-PbA-015	1st Floor Column G-26	<3.31	µg/m ³	30 µg/m ³
105-PbA-016	1st Floor Column H-20	<3.31	µg/m ³	30 µg/m ³
105-PbA-017	1st Floor Column C-17	<3.0	µg/m ³	30 µg/m ³
105-PbA-018	1st Floor Column F-15	<3.58	µg/m ³	30 µg/m ³
105-PbA-019	1st Floor Column G-10	<3.31	µg/m ³	30 µg/m ³
105-PbA-020	1st Floor Column F-1.5	<3.0	µg/m ³	30 µg/m ³
105-PbA-021	1st Floor Column B-8	<2.95	µg/m ³	30 µg/m ³
105-PbA-022	1st Floor Column C-13	<2.95	µg/m ³	30 µg/m ³
105-PbA-023	2nd Floor Column G-39	<3.03	µg/m ³	30 µg/m ³
105-PbA-024	2nd Floor Column D-4	<3.10	µg/m ³	30 µg/m ³
105-PbA-025	2nd Floor Column B-12	<3.14	µg/m ³	30 µg/m ³
105-PbA-026	2nd Floor Column F-13.5	<3.15	µg/m ³	30 µg/m ³
105-PbA-027	2nd Floor Column G-15.5	<3.23	µg/m ³	30 µg/m ³
105-PbA-028	2nd Floor Column J-23.5	<3.29	µg/m ³	30 µg/m ³
105-PbA-029	2nd Floor Column G-26	<3.31	µg/m ³	30 µg/m ³
105-PbA-030	2nd Floor Column B-28	<3.31	µg/m ³	30 µg/m ³
105-PbA-031	2nd Floor Column B-39	<3.31	µg/m ³	30 µg/m ³
105-PbA-032	2nd Floor Column J-39	<3.31	µg/m ³	30 µg/m ³
105-PbA-033	2nd Floor Column F-34	<3.31	µg/m ³	30 µg/m ³
105-PbA-034	2nd Floor Column D-32	<3.31	µg/m ³	30 µg/m ³
105-PbA-035	2nd Floor Column F-52	<3.31	µg/m ³	30 µg/m ³
105-PbA-036	2nd Floor Column H-49	<3.27	µg/m ³	30 µg/m ³
105-PbA-037	2nd Floor Column E-42.5	<3.29	µg/m ³	30 µg/m ³
105-PbA-038	2nd Floor Column C-43	<3.12	µg/m ³	30 µg/m ³
105-PbA-039	Basement Center West	<2.21	µg/m ³	30 µg/m ³
105-PbA-040	Basement Center East	<2.26	µg/m ³	30 µg/m ³
105-PbA-041	Basement 2 South West	<2.46	µg/m ³	30 µg/m ³
105-PbA-042	Basement 2 Center West	<2.50	µg/m ³	30 µg/m ³
105-PbA-043	Basement 2 Center East	<2.46	µg/m ³	30 µg/m ³
105-PbA-044	Basement 4 Column B-41	<2.62	µg/m ³	30 µg/m ³
105-PbA-045	Blank	<2.0	µg	30 µg/m ³

s/mm² = structures per square millimeter
µg/m³ = micrograms per cubic meter
µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 105				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105-PbW-001	1st Floor Column H-52 Floor Tile	<10	µg/ft ²	200 µg/ft ²
105-PbW-002	1st Floor Column D-45 Top of Battery Terminal	2260	µg/ft ²	200 µg/ft ²
105-PbW-003	Penthouse Center West Top of Air Handler	223	µg/ft ²	200 µg/ft ²
105-PbW-004	Penthouse South Yellow I-Beam on West Side	79	µg/ft ²	200 µg/ft ²
105-PbW-005	Penthouse Chiller Floor Near Entrance	45.8	µg/ft ²	200 µg/ft ²
105-PbW-006	1st Floor Column H-2 Desk Top	<10	µg/ft ²	200 µg/ft ²
105-PbW-007	1st Floor Column C-17 Top of File Cabinet	<10	µg/ft ²	200 µg/ft ²
105-PbW-008	1st Floor Column F-3 Stair Tread	<10	µg/ft ²	200 µg/ft ²
105-PbW-009	Basement South West Stairwell Lower Hand Rail	<10	µg/ft ²	200 µg/ft ²
105-PbW-010	Basement Column E-43.5 Handrail	86	µg/ft ²	200 µg/ft ²
105-PbW-011	Basement Column E-46 Metal Ladder Rung	104	µg/ft ²	200 µg/ft ²
105-PbW-012	1st Floor Column J-41 Window Sill	44	µg/ft ²	200 µg/ft ²
105-PbW-013	2nd Floor Column H-2 Top of Light	1020	µg/ft ²	200 µg/ft ²
105-PbW-014	2nd Floor Column J-10 Top of Fridge	<10	µg/ft ²	200 µg/ft ²
105-PbW-015	2nd Floor Column J-21 Window Sill	<10	µg/ft ²	200 µg/ft ²
105-PbW-016	2nd Floor Column A-30 Top of Cabinet	<10	µg/ft ²	200 µg/ft ²
105-PbW-017	2nd Floor Column J-38 Floor Tread on Ramp	<10	µg/ft ²	200 µg/ft ²
105-PbW-018	2nd Floor Column J-44 Floor Tile	<10	µg/ft ²	200 µg/ft ²
105-PbW-019	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 105				
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105-PbV-001	1st Floor Column H-54 Carpet	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-002	1st Floor Column H-2 Below Desk	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-003	South East Basement Stairwell Concrete Stair Tread	311	µg/ft ²	200 µg/ft ²
105-PbV-004	Basement Column F-45 Wood Stair	3290	µg/ft ²	200 µg/ft ²
105-PbV-005	Basement Column C-42 Concrete Pier Foot	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-006	Basement Column E-45 Concrete Pier Foot	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-007	Basement Column F-47 Concrete Ledge at Edge	490	µg/ft ²	200 µg/ft ²
105-PbV-008	Basement Column E-48 Concrete Ledge at Edge	539	µg/ft ²	200 µg/ft ²
105-PbV-009	Basement Column G-46 Concrete Floor	181	µg/ft ²	200 µg/ft ²
105-PbV-010	Basement Column B-45 Concrete Floor	1550	µg/ft ²	200 µg/ft ²
105-PbV-011	2nd Floor Column C-43 Top of Dry Transformer	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-012	1st Floor Column F-35 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-013	Blank	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-014	1st Floor Column B-20 Concrete Floor in Switch Room	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-015	1st Floor Column B-17 Freight Elevator Floor	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-016	1st Floor Column J-12 Carpet in Nursing Room	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-017	1st Floor Column G-5 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-018	2nd Floor Column H-2 Carpet	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-019	2nd Floor Column G-13 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-020	2nd Floor Column B-21 Top of Cabinet	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-021	2nd Floor Column B-31 Mechanical Room Air Duct	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-022	2nd Floor Column J-40 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-023	2nd Floor Southwest Stair I-Beam	<92.9	µg/ft ²	200 µg/ft ²
105-PbV-024	2nd Floor Southwest Stair Window Sill	246	µg/ft ²	200 µg/ft ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

(b) (7)(F)

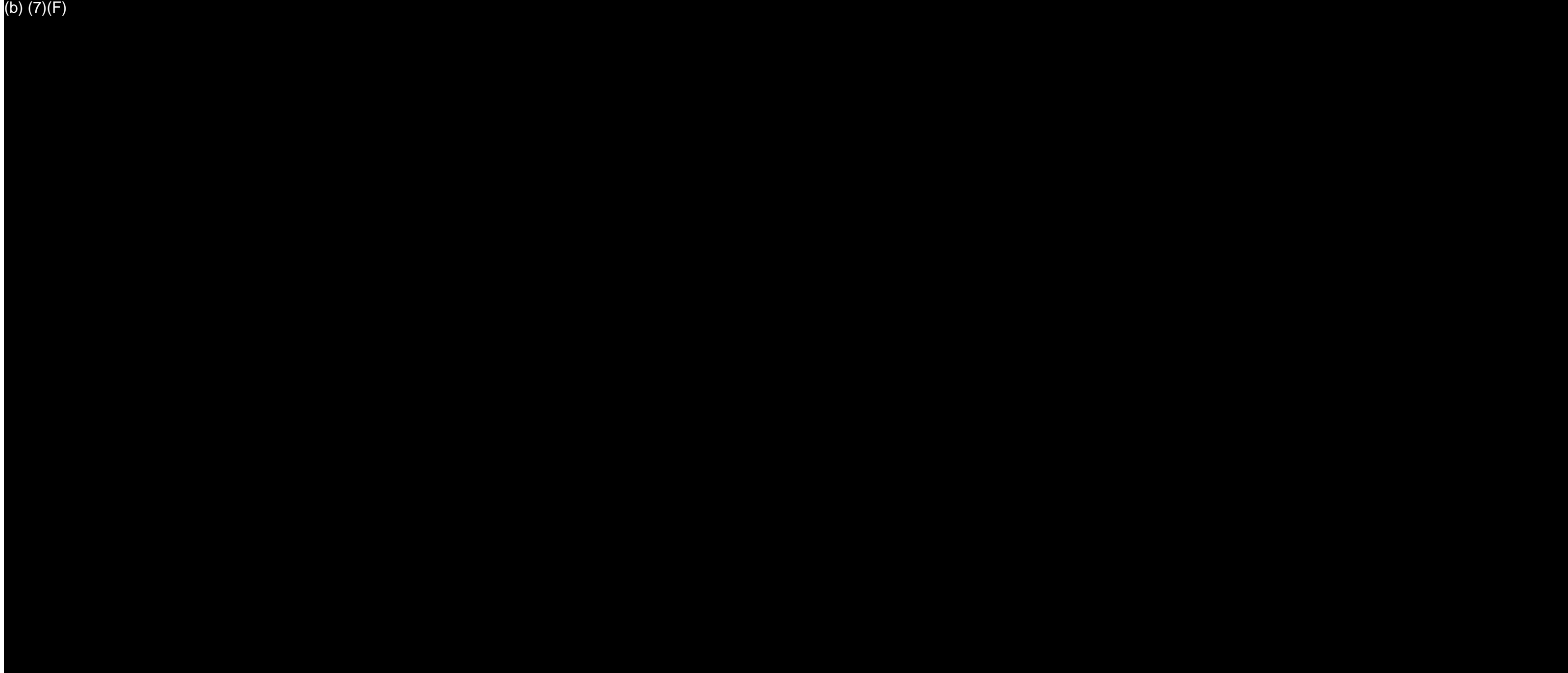
SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0612 (105) - PENTHOUSE	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0612 (105) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS

(b) (7)(F)

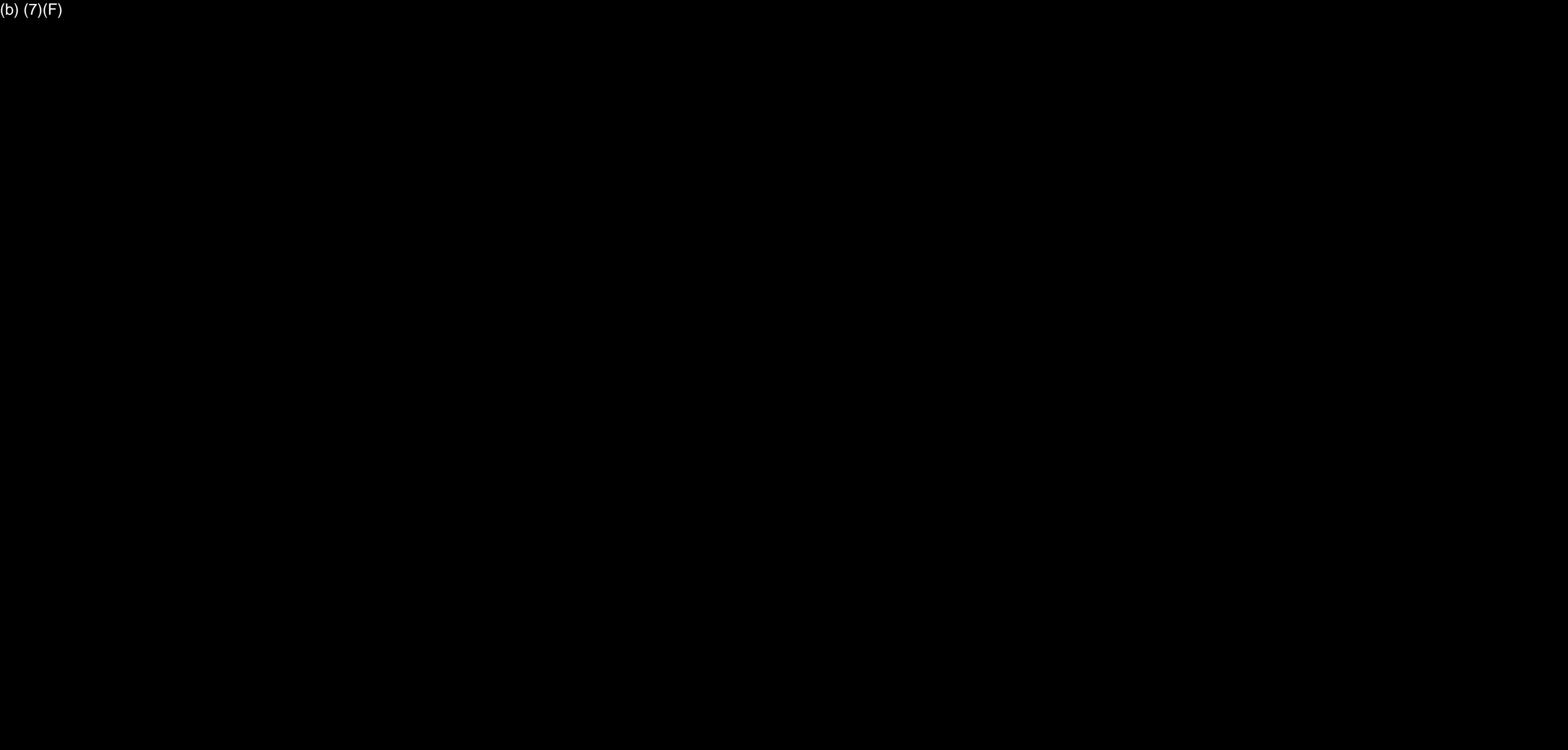
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- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0612 (105) - 2nd FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0612 (105) - 1st FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 105E				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105E-AA-001	2nd Floor Column M-51.5	<15.2	s/mm ²	70 s/mm ²
105E-AA-002	2nd Floor Column O-47	<15.2	s/mm ²	70 s/mm ²
105E-AA-003	2nd Floor Column M-O-42.5	<15.2	s/mm ²	70 s/mm ²
105E-AA-004	1st Floor Column M-43.5	<15.2	s/mm ²	70 s/mm ²
105E-AA-005	1st Floor Column P-46	<15.2	s/mm ²	70 s/mm ²
105E-AA-006	1st Floor Column O-52	<15.2	s/mm ²	70 s/mm ²
105E-AA-007	1st Floor Loading Dock	<15.2	s/mm ²	70 s/mm ²
105E-AA-008	Basement West Column L47	<15.2	s/mm ²	70 s/mm ²
105E-AA-009	Basement East Column O48	<15.2	s/mm ²	70 s/mm ²
105E-AA-010	Basement South	<15.2	s/mm ²	70 s/mm ²
105E-AA-011	Blank	<15.2	s/mm ²	70 s/mm ²
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105E-PbA-001	2nd Floor Column M-51.5	<3.31	µg/m ³	30 µg/m ³
105E-PbA-002	2nd Floor Column O-47	<3.31	µg/m ³	30 µg/m ³
105E-PbA-003	2nd Floor Column M-O-42.5	<3.31	µg/m ³	30 µg/m ³
105E-PbA-004	1st Floor Column M-43.5	<3.31	µg/m ³	30 µg/m ³
105E-PbA-005	1st Floor Column P-46	<3.31	µg/m ³	30 µg/m ³
105E-PbA-006	1st Floor Column O-52	<3.31	µg/m ³	30 µg/m ³
105E-PbA-007	1st Floor Loading Dock	<3.31	µg/m ³	30 µg/m ³
105E-PbA-008	Basement West	<3.07	µg/m ³	30 µg/m ³
105E-PbA-009	Basement East	<3.07	µg/m ³	30 µg/m ³
105E-PbA-010	Basement South	<3.07	µg/m ³	30 µg/m ³
105E-PbA-011	Blank	<2.00	µg	30 µg/m ³

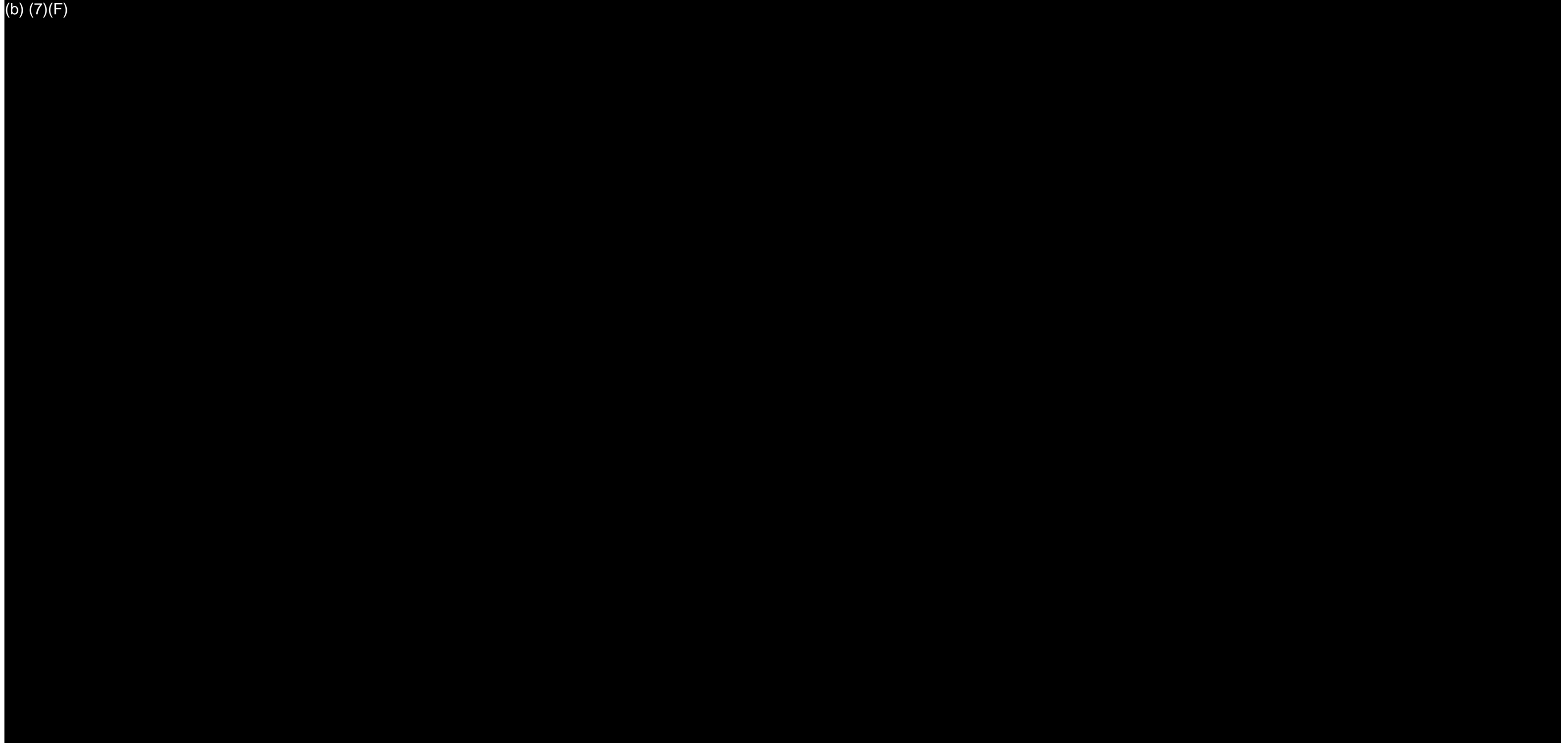
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Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 105E				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105E-PbW-001	1st Floor Column M-43 Heater Shelf	<10	µg/ft ²	200 µg/ft ²
105E-PbW-002	1st Floor Column L-47.5 Concrete Floor	6840	µg/ft ²	200 µg/ft ²
105E-PbW-003	1st Floor Column M-52 Floor - Floor Tile	<10	µg/ft ²	200 µg/ft ²
105E-PbW-004	2nd Floor Column L-52 Window Sill	<10	µg/ft ²	200 µg/ft ²
105E-PbW-005	2nd Floor Column M-48.5 Desk	<10	µg/ft ²	200 µg/ft ²
105E-PbW-006	2nd Floor Column M-46.5 Shelf	<10	µg/ft ²	200 µg/ft ²
105E-PbW-007	Blank	<10	µg	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105E-PbV-001	Basement Northeast Concrete Floor	<92.9	µg/ft ²	200 µg/ft ²
105E-PbV-002	Basement Northwest Concrete Wall Ledge	<92.9	µg/ft ²	200 µg/ft ²
105E-PbV-003	Basement West Concrete Tunnel Stair	93.3	µg/ft ²	200 µg/ft ²
105E-PbV-004	1st Floor Column M-43 Top of Equipment	<92.9	µg/ft ²	200 µg/ft ²
105E-PbV-005	1st Floor Column L-46 Floor	<92.9	µg/ft ²	200 µg/ft ²
105E-PbV-006	1st Floor Column M-52.5 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
105E-PbV-007	2nd Floor Column M-48.5 Carpet	<92.9	µg/ft ²	200 µg/ft ²
105E-PbV-008	2nd Floor Column M-44 Concrete Floor	<92.9	µg/ft ²	200 µg/ft ²
105E-PbV-009	2nd Floor Column M-42.5 Top of Water Fountain	<92.9	µg/ft ²	200 µg/ft ²
105E-PbV-010	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

(b) (7)(F)



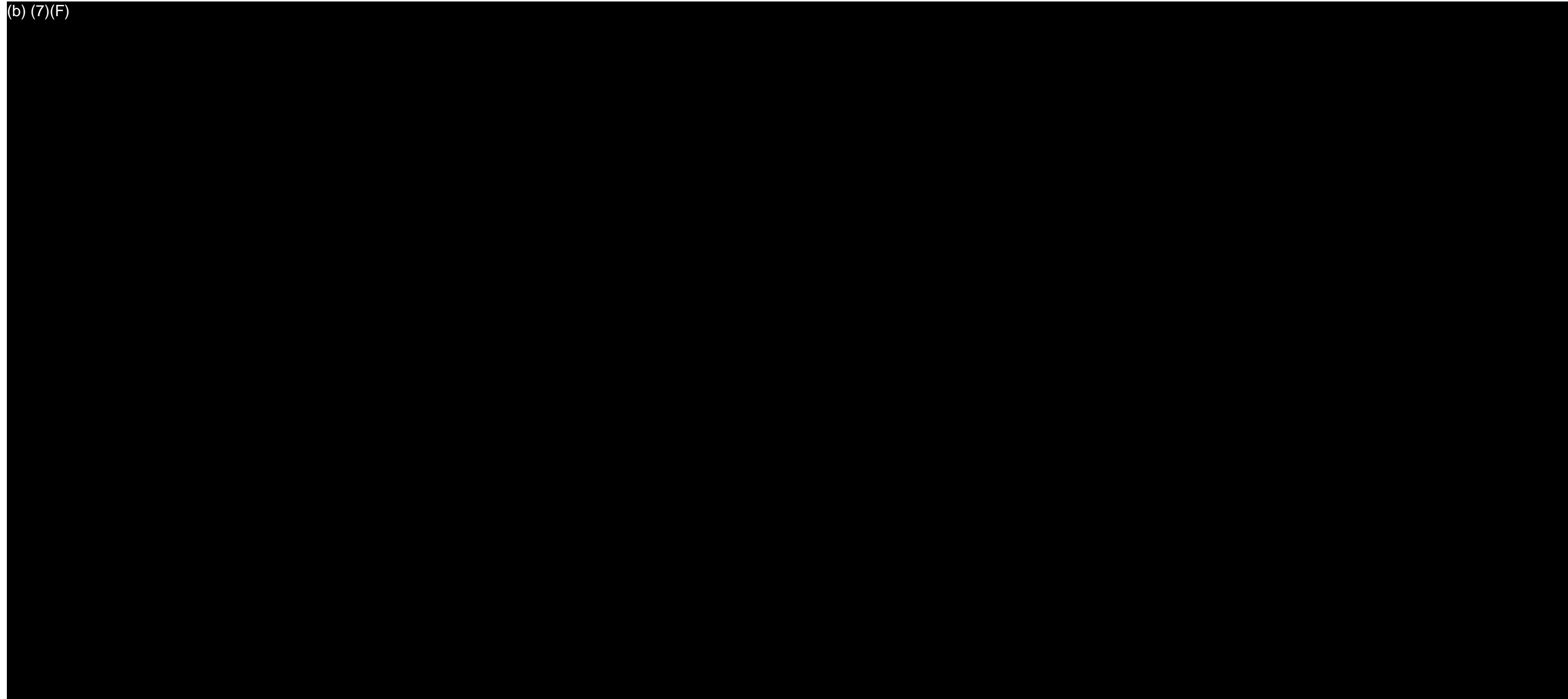
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- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0613 (105E) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS

(b) (7)(F)



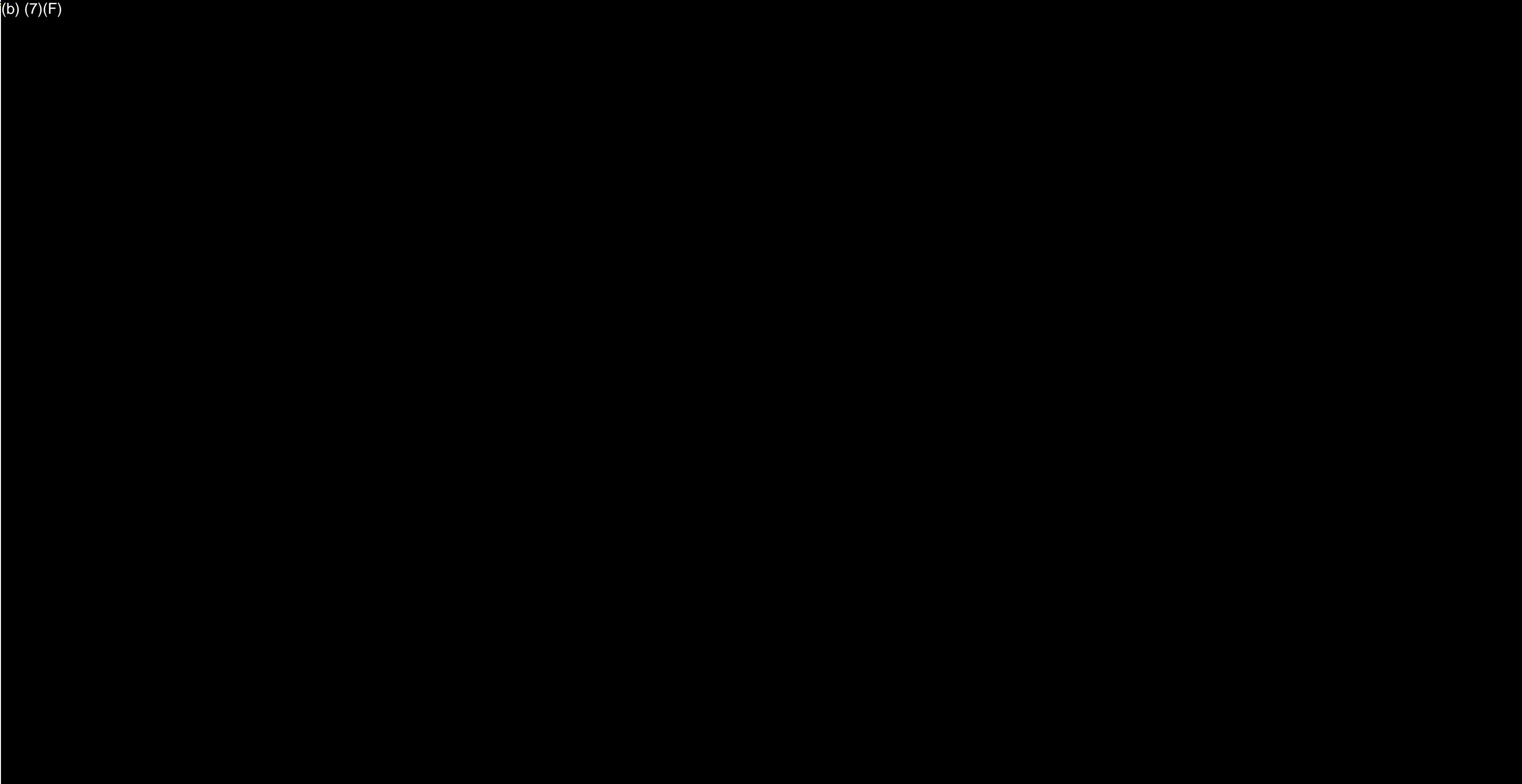
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- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0613 (105E) - 2nd FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0613 (105E) - 1st FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159451
-----------------	--------

Matrix Wipe
Received 02/22/16
Analyzed 02/22/16
Reported 02/23/16

Project Goodfellow 105E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159451-001	105E-PbW-001	M43 1st FI Heater Shelf	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159451-002	105E-PbW-002	L47.5 1st FI Concrete FI	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	6840 µg/wipe	6840 µg/ft2	250 µg/ft2
159451-003	105E-PbW-003	M52 1st FI FI Tile	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159451-004	105E-PbW-004	L52 2nd FI Window Sill	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159451-005	105E-PbW-005	M48.5 2nd FI Desk	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159451-006	105E-PbW-006	M46.5 2nd FI Shelf	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159451-007	105E-PbW-007	Wipe Blank	02/18/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 µg/wipe

Analyst IH
159451-02/23/16 09:59 AM

(b) (6)

Reviewed By **Abisola Kasali**
Metals Supervisor

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com



159451

V:\159\159451

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-894-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 105E	Special instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7802) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
105E-P6W-001	2/18	0919	M43 1 st Floor heater Shelf	1						
105E-P6W-002		0928	242.5 1 st Floor Concrete floor	1						
105E-P6W-003		0932	M52 1 st Floor Floor tile	1						
105E-P6W-004		0940	252 2 nd Floor Window Sill	1						
105E-P6W-005		0942	M48.5 2 nd Floor Desk	1						
105E-P6W-006		0950	M46.5 2 nd Floor Shelf	1						
105E-P6W-007		-	Wipe Blank	-	-					

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>Justin Ansel</u> SIGNATURE (b) (6) DATE / TIME <u>2-18-16</u>	Relinquished to lab by NAME <u>Kenn H. Ford</u> SIGNATURE (b) (6) DATE / TIME <u>2-19, 1600</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>1612</u>
---	--	--

Sample return requested Ambient temp Ice CI R S X Rec
* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms & Conditions apply.



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159449

Matrix Wipe
Received 02/22/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow 105E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159449-001	105E-PbV-001	Basement NE C FI	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159449-002	105E-PbV-002	Basement NW C Wall Ledge	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159449-003	105E-PbV-003	Basement W C Stair	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	10.0 µg/wipe	93.3 µg/ft2	92.9 µg/ft2
159449-004	105E-PbV-004	M43 1st FI Top	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159449-005	105E-PbV-005	L46 1st FI FI	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159449-006	105E-PbV-006	M52.5 1st FI CT	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159449-007	105E-PbV-007	M48.5 2nd FI Carpet	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159449-008	105E-PbV-008	M44 2nd FI C FI	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159449-009	105E-PbV-009	M47.5 2nd FI Top	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159449-010	105E-PbV-010	Blank	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 µg/wipe

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159449
-----------------	--------

Matrix Wipe
Received 02/22/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow 105E
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Total	Conc.	RL*
Parameter		Method	Area			

Analyst OHE
159449-02/23/16 01:24 PM

(b) (6)

Reviewed By **Abisola Kasali**
Metals Supervisor

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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 www.slabinc.com e-mail: info@slabinc.com



V:159\159449

Submitting Co. OCCU-TEC Inc.	Lab WC#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 10SE	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
10SE-P6U-001	2/18	0905	Basement NE C. Floor	100 cm ²		0905				
10SE-P6U-002		0910	Basement NW C. Wall ledge	100 cm ²		0910				
10SE-P6U-003		0912	Basement W C. Stair	100 cm ²						
10SE-P6U-004		0922	M43 1 st Floor Top of Equip	100 cm ²						
10SE-P6U-005		0930	L46 1 st Floor Floor	100 cm ²						
10SE-P6U-006		0934	M52.S 1 st Floor CT	100 cm ²						
10SE-P6U-007		0953	M48.S 2 nd Floor Carpet	100 cm ²						
10SE-P6U-008		0955	M44 2 nd Floor C. Floor	100 cm ²						
10SE-P6U-009		0958	M47.S 2 nd Floor Top of WF	100 cm ²						
10SE-P6U-010			Blank	-	-	-	-	-	-	-

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Justin Arnold SIGNATURE (b) (6) DATE / TIME 2-18-14	Relinquished to lab by Kevin Hefford SIGNATURE (b) (6) DATE / TIME 2-19, 1600	2-22-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 1612
---	--	--------------------	---

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions apply.



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159410

Matrix: Air
Received: 02/22/16
Analyzed: 02/22/16
Reported: 02/22/16

Attn:
Project: Goodfellow 105E
Location: St. Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159410-001	105E-PbA-001	2nd Floor M51.5	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159410-002	105E-PbA-002	2nd Floor O-47	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159410-003	105E-PbA-003	2nd Floor M-O 42.5	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159410-004	105E-PbA-004	1st Floor M43.5	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159410-005	105E-PbA-005	1st Floor P46	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159410-006	105E-PbA-006	1st Floor O52	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159410-007	105E-PbA-007	1st Floor Loading Dock	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159410-008	105E-PbA-008	Basement West	02/18/16	178 min	3.67 L/min	653 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.07 µg/m3	<1.14 µg/m3
159410-009	105E-PbA-009	Basement East	02/18/16	178 min	3.67 L/min	653 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.07 µg/m3	<1.14 µg/m3
159410-010	105E-PbA-010	Basement South	02/18/16	178 min	3.67 L/min	653 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.07 µg/m3	<1.14 µg/m3
159410-011	105E-PbA-011	Blank	02/18/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: MHB
159410-02/22/16 03:46 PM

(b) (6)

Reviewed By: **Abisola Kasali**
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



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Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 10SE	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type')	Wiped Area (ft²)	pH / Temp *	Time*		Flow Rate*		Total* Air
						Start	Stop	Start	Stop	
10SE-P6A-001	2/18		2 nd Floor MS1.S			0745	1033	3.67	3.67	605.55
10SE-P6A-002			2 nd Floor D-47			0755	1040	3.67	3.67	605.55
10SE-P6A-003			2 nd Floor M-0 42.5			0800	1045	3.67	3.67	605.55
10SE-P6A-004			1 st Floor M 43.5			0805	1050	3.67	3.67	605.55
10SE-P6A-005			1 st Floor P46			0810	1055	3.67	3.67	605.55
10SE-P6A-006			1 st Floor 052			0815	1000	3.67	3.67	605.55
10SE-P6A-007			1 st Floor Loading Dock			0820	1105	3.67	3.67	605.55
10SE-P6A-008			Basement West			0855	1153	3.67	3.67	653.26
10SE-P6A-009			Basement East			0855	1153	3.67	3.67	653.26
10SE-P6A-010			Basement South			0855	1153	3.67	3.67	653.26

*Type: A=Area B=Blank P=Personal E=Excursion *Beginning/End of Sample Period *Pump Calibration in Liters/Minute *Volume in Liters (time in min x flow in L/min)
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Justin Arnold SIGNATURE (b) (6) DATE / TIME 2-19-16	Relinquished to lab by Kenna Hebert NAME SIGNATURE (b) (6) DATE / TIME 2-19-16 1600	2-22-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 1612
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* Temperature taken with IR Gun A. **Required Chain-of-Custody documentation continued internally within lab. Terms



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WO Label

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 www.slabin.com e-mail: info@slabin.com

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 105E	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type*)	Wiped Area (ft²)	pH / Temp *	Time²		Flow Rate³		Total⁴ Air
						Start	Stop	Start	Stop	
105E-P6A-01)	2/18	-	Blank	-	-	-	-	-	-	-

*Type: A=Area B=Blank P=Personal E=Excursion **Beginning/End of Sample Period †Pump Calibration in Liters/Minute ‡Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>Justin Arnold</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-18-16</u>	Relinquished to lab by NAME <u>Kevin H. Ford</u> SIGNATURE <u>(b) (6)</u> DATE / TIME <u>2-19, 1600</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$60 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> HD <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> DB WB: <u>1612</u>
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**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: March 3, 2016

Attention: Jay Hurst
OCCU-TEC, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-336OCCA
Goodfellow - 105E Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on March 3, 2016. These samples represent the TEM samples for the Goodfellow - 105E Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the ten (10) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Dear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - 105E Project - OCC# 916029

McCall and Spero Project No: MSE-336OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	105E-AA-001	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I02	105E-AA-002	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I03	105E-AA-003	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I04	105E-AA-004	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I05	105E-AA-005	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I06	105E-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I07	105E-AA-007	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I08	105E-AA-008	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I09	105E-AA-009	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I10	105E-AA-010	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
 Filter diameter: 25mm
 Effective filter Area: 385mm²
 Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
 Grid Openings Analyzed Per Sample: 7
 Area Analyzed Per Sample: 0.0658mm²
 Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
 NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
 SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
 s/mm² - asbestos structures per square millimeter
 s/cc = asbestos structures per cubic centimeter
 * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
 The analysis was performed according to the TEM Method (40CFR part 763).
 This laboratory is in compliance with the specified method.
 Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director (b) (6) Date: 3/3/16
McCall and Spero Environmental, Inc.



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC.	Telephone #: 816-231-5580	Fax #: 816-994-3470
Contact: Jay Hurst	Client Project Number: 916029	
Relinquished by: (b) (6)	Date: 3/2/2016	Time: 15:00
Written Report To: jayhurst@occutec.com ; jsmith@occutec.com		
Project Name: Goodfellow 105E		
Turn-Around Time: (Circle One) 4 Hour <u>6-8 Hour (same day)</u> 24 Hour 2-3 Day 4-5 Day Weekend Rush After Hour Rush		

MSE Project #: MSE-336000A Comments: defect

Samples Received by: (b) (6) Date: 03/03/16 Time: 10:00AM

Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763

Samples Prepared By: (b) (6) Method: Burdett & Rood

Samples Analyzed By: (b) (6) Date: 3/3/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
105E-AA-001	2ND FLOOR Column M-51.5	10:56	13:41	165	8.03	1324.95
105E-AA-002	2ND FLOOR Column O-47	10:57	13:42	165	8.03	1324.95
105E-AA-003	2ND FLOOR Column M/O-42.5	10:58	13:43	165	8.03	1324.95
105E-AA-004	1ST FLOOR Column M-44.5	11:01	13:46	165	8.03	1324.95
105E-AA-005	1ST FLOOR Column P-46	11:05	13:50	165	8.03	1324.95
105E-AA-006	1ST FLOOR Column O-52	11:10	13:55	165	8.03	1324.95
105E-AA-007	1ST FLOOR Loading Dock	11:08	13:53	165	8.03	1324.95
105E-AA-008	BASEMENT Column L-47	11:21	14:06	165	8.03	1324.95
105E-AA-009	BASEMENT Column O-48	11:22	14:07	165	8.03	1324.95
105E-AA-010	Tunnel Column P-45.5	11:25	14:10	165	8.03	1324.95
105E-AA-011	BLANK					

Results Transmitted/Date: _____ Fax/Phone By: _____

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 105F				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105F-AA-001	1st Floor Column P-28	<15.2	s/mm ²	70 s/mm ²
105F-AA-002	1st Floor Column P-32	<15.2	s/mm ²	70 s/mm ²
105F-AA-003	1st Floor Column L-34	<15.2	s/mm ²	70 s/mm ²
105F-AA-004	1st Floor Column M-36	<15.2	s/mm ²	70 s/mm ²
105F-AA-005	2nd Floor Column P-34	<15.2	s/mm ²	70 s/mm ²
105F-AA-006	2nd Floor Column M-33	<15.2	s/mm ²	70 s/mm ²
105F-AA-007	2nd Floor Column P-27	<15.2	s/mm ²	70 s/mm ²
105F-AA-008	Blank	Not Analyzed		
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105F-PbA-001	1st Floor Column P-28	<3.31	µg/m ³	30 µg/m ³
105F-PbA-002	1st Floor Column P-32	<3.31	µg/m ³	30 µg/m ³
105F-PbA-003	1st Floor Column L-34	<3.31	µg/m ³	30 µg/m ³
105F-PbA-004	1st Floor Column M-36	<3.31	µg/m ³	30 µg/m ³
105F-PbA-005	2nd Floor Column P-34	<3.31	µg/m ³	30 µg/m ³
105F-PbA-006	2nd Floor Column M-33	<3.31	µg/m ³	30 µg/m ³
105F-PbA-007	2nd Floor Column P-27	<3.31	µg/m ³	30 µg/m ³
105F-PbA-008	Blank	<2.00	µg	30 µg/m ³
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105F-PbW-001	2nd Floor Column P-27 Concrete Stair	<10	µg/ft ²	200 µg/ft ²
105F-PbW-002	2nd Floor Column M-33 Shelf	<10	µg/ft ²	200 µg/ft ²
105F-PbW-003	2nd Floor Column M-35 Duct	897	µg/ft ²	200 µg/ft ²
105F-PbW-004	1st Floor South Stairwell Stair Tread	59.5	µg/ft ²	200 µg/ft ²
105F-PbW-005	1st Floor Column P-33.5 Window Sill	<10	µg/ft ²	200 µg/ft ²
105F-PbW-006	1st Floor Column M-28.5 Stair Stringer	<10	µg/ft ²	200 µg/ft ²
105F-PbW-007	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 105F				
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105F-PbV-001	2nd Floor Column P-27 Carpet	<92.9	µg/ft ²	200 µg/ft ²
105F-PbV-002	2nd Floor Column M-35 Pipe Insulation	<92.9	µg/ft ²	200 µg/ft ²
105F-PbV-003	2nd Floor Column O-35 Concrete Floor	<92.9	µg/ft ²	200 µg/ft ²
105F-PbV-004	1st Floor Elevator Wood Block Floor	<92.9	µg/ft ²	200 µg/ft ²
105F-PbV-005	1st Floor Column P-33 Carpet	<92.9	µg/ft ²	200 µg/ft ²
105F-PbV-006	1st Floor Column M-28.5 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
105F-PbV-007	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

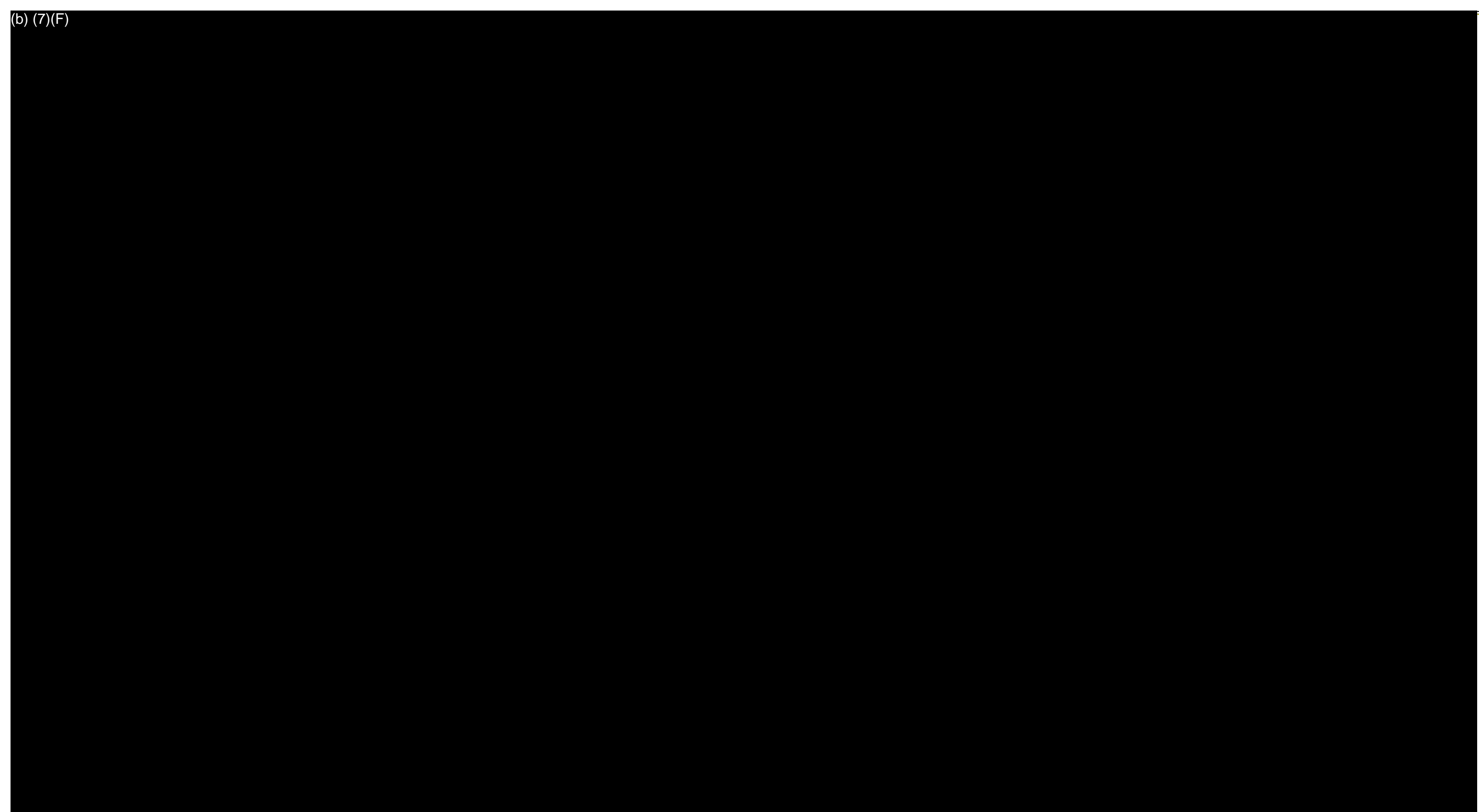
(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0614 (105F) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS



(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0614 (105F) - 2nd FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0614 (105F) - 1st FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159446
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Matrix Air
Received 02/22/16
Analyzed 02/23/16
Reported 02/25/16

Attn:
Project: Goodfellow 105F
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159446-001	105F-PbA-001	P28 1st Floor	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159446-002	105F-PbA-002	P32 1st Floor	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
<i>Endcaps missing; possible cross-contamination or sample loss.</i>							
159446-003	105F-PbA-003	L34 1st Floor	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159446-004	105F-PbA-004	M36 1st Floor	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159446-005	105F-PbA-005	P34 2nd Floor	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159446-006	105F-PbA-006	M33 2nd Floor	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159446-007	105F-PbA-007	P27 2nd Floor	02/18/16	165 min	3.67 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.31 µg/m3	<1.14 µg/m3
159446-008	105F-PbA-008	Blank	02/18/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH
159446-02/25/16 01:24 PM

(b) (6)
Rev
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Report Amended. Revised samples results with updated stop times per customer request.

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com



159446

V:\159\159446

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 105F	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type*)	Wiped Area (ft²)	pH / Temp *	Time²		Flow Rate³		To A
						Start	Stop	Start	Stop	
105F-P6A-001	2/18		P28 1st Floor			1216	1301	3.67	3.67	60
105F-P6A-002			P32 1st Floor			1225	1310	3.67	3.67	60
105F-P6A-003			L34 1st Floor			1228	1313	3.67	3.67	60
105F-P6A-004			M36 1st Floor			1230	1315	3.67	3.67	60
105F-P6A-005			P34 2nd Floor			1237	1322	3.67	3.67	60
105F-P6A-006			M33 2nd Floor			1246	1331	3.67	3.67	60
105F-P6A-007			P27 2nd Floor			1252	1337	3.67	3.67	60
105F-P6A-008	✓		Blank	-	-	-	-	-	-	-

*Type: A=Area B=Blank P=Personal E=Excursion †Beginning/End of Sample Period ‡Pump Calibration in Liters/Minute †Volume in Liters [Time in min x flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by J Arnold SIGNATURE (b) (6) DATE / TIME 2-19 1600	Relinquished to lab by J Arnold SIGNATURE (b) (6) DATE / TIME 2-16 1600	Sample Disposal <input type="checkbox"/> Return to Sender (Ship) <input type="checkbox"/> Disposal by lab <small>(\$50 fee for excessive weight)</small> Shipping Method <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> <input type="checkbox"/> HD <input type="checkbox"/> DB
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> Cl <input type="checkbox"/> R <input checked="" type="checkbox"/> S <input checked="" type="checkbox"/> X		2-22-08 (b) (6)

* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within lab. Te

1612



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159408

Matrix Wipe
Received 02/22/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow 105F
Location St Louis, MO
Number 916029

Table with 7 columns: Sample ID, Cust. Sample ID, Location Method, Sample Date Area, Total, Conc., RL*. Rows include various sample IDs (159408-001 to 159408-012) and their corresponding test results for Lead.

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159408

Matrix Wipe
Received 02/22/16
Analyzed 02/22/16
Reported 02/23/16

Project Goodfellow 105F
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter		Method					
Lead		EPA 7000B / 3050B		1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159408-013	105F PbW-006	1st FL M28.5 Stringer	02/18/16				
Lead		EPA 7000B / 3050B		1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159408-014	105F PbW-007	Blank	02/18/16				
Lead		EPA 7000B / 3050B			<10.0 µg/wipe		10.0 µg/wipe

Analyst OHE
159408-02/23/16 01:22 PM

(b) (6)
Reviewed By _____
Metals Supervisor

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

WO Label

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 105 F	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † * Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.	All samples on form should be of SAME matrix type. Use additional forms as needed. <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
105F-PbW-001	2/18/14	1254	2 nd floor P27 stair	1 sf						
105F-PbW-002		1527	2 nd floor M33 shelf							
105F-PbW-003		1532	2 nd floor M35 Duct							
105F-PbW-004		1548	1 st floor S. Stair Tread							
105F-PbW-005		1554	1 st floor P33.5 Window Sill							
105F-PbW-006		1600	1 st floor M28.5 Stringer							
105F-PbW-007	✓	1605	BLANK	-						

Volume in Liters (flow in min x flow in L/min)
 Sample Disposal
 Recycle (to Chemistry planning area)
 Recycled by Job
 Recycled for maximum weight

Shipping Methods
 FX UPS USM
 HD DB

WB: 1612

(b) (6)



SCHNEIDER LABORATORIES GLOBAL, INC

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

159408



V:\159\159408

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 105 F	Special Instructions [Include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
105F-PbV-001	2/18/14	1256	2 nd floor P27 Carpet	100cm ²						
105F-PbV-002		1537	2 nd floor M35 Pipe Insulation							
105F-PbV-003		1540	2 nd floor O35 Concrete floor							
105F-PbV-004		1545	1 st floor Elevator floor Wood							
105F-PbV-005		1557	1 st floor P33 Carpet							
105F-PbV-006		1601	1 st floor M28.5 Ceiling Tile							
105F-PbV-007		1605	BLANK							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [Time in min x flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>Justin Arnold</u> SIGNATURE (b) (6) DATE / TIME <u>2-18-14</u>	Relinquished to lab by NAME <u>Justin Arnold</u> SIGNATURE (b) (6) DATE / TIME <u>2-18-14 16:00</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> EX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>1612</u>
---	---	--

Sample return requested Ambient temp Ice CI R S X F
* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Term



**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date: February 25, 2016

Attention: Jay Hurst
OCCU-TEC INC.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2226OCCA.2
Goodfellow 105F Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 22, 2016. These samples represent the TEM samples for the Goodfellow 105F Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the seven (7) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I
Inside Samples

Project Name: Goodfellow 105F Project - OCC# 916029

McCall and Spero Project No: MSE-2226OCCA.2

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I001	105F-AA-001	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I002	105F-AA-002	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I003	105F-AA-003	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I004	105F-AA-004	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I005	105F-AA-005	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I006	105F-AA-006	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*
I007	105F-AA-007	NSD	NA	1324.95	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:
The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

CH = Chrysotile A = Amosite BDL = Below Detectable Limit
F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter

* Single fiber detection limits are used when no structures are detected.
Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

Laboratory Director:

(b) (6)

Date:

2/25/16

McCall and Spero Environmental, Inc.



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: <u>OCCU-TEC INC.</u>	Telephone #: <u>816-231-5580</u>	Fax #: <u>816-994-3470</u>
Contact: <u>Jay Hurst</u>	Client Project Number: <u>916029</u>	
Relinquished by: <u>(b) (6)</u>	Date: <u>2/19</u>	Time: <u>1700</u>
Written Report To: <u>jayhurst@occutec.com ; jsmith@occutec.com</u>		
Project Name: <u>Goodfellow 105F</u>		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour <u>2.5 Day</u> 4-5 Day Weekend Rush After Hour Rush		

MSE Project #: MSE-22200CA.2 Comments: Intact

Samples Received by: (b) (6) Date: 2.22.16 Time: 9:00 AM

Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763

Samples Prepared By: (b) (6) Method: Burdett & Rood

Samples Analyzed By: (b) (6) Date: 2/22/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
105F-AA-001	1 st Floor P28	1216	1301	165	8.03	1324.95
105F-AA-002	1 st Floor P32	1225	1310	165	8.03	1324.95
105F-AA-003	1 st Floor L34	1228	1313	165	8.03	1324.95
105F-AA-004	1 st Floor M36	1230	1315	165	8.03	1324.95
105F-AA-005	2 nd Floor P34	1237	1322	165	8.03	1324.95
105F-AA-006	2 nd Floor M33	1246	1331	165	8.03	1324.95
105F-AA-007	2 nd Floor P27	1252	1337	165	8.03	1324.95
105F-AA-008	Blank	-	-	-	-	-

Results Transmitted/Date: _____ Fax/Phone By: _____

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 105L				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105L-AA-001	1st Floor Column A-14	<15.2	s/mm ²	70 s/mm ²
105L-AA-002	1st Floor Column C-14	<15.2	s/mm ²	70 s/mm ²
105L-AA-003	1st Floor Column B-09	<15.2	s/mm ²	70 s/mm ²
105L-AA-004	1st Floor Column D-08	<15.2	s/mm ²	70 s/mm ²
105L-AA-005	1st Floor Column A-02	<15.2	s/mm ²	70 s/mm ²
105L-AA-006	Blank	Not Analyzed		
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105L-PbA-001	1st Floor Column A-14	<3.34	µg/m ³	30 µg/m ³
105L-PbA-002	1st Floor Column C-14	<3.61	µg/m ³	30 µg/m ³
105L-PbA-003	1st Floor Column B-09	<3.32	µg/m ³	30 µg/m ³
105L-PbA-004	1st Floor Column D-08	<3.30	µg/m ³	30 µg/m ³
105L-PbA-005	1st Floor Column A-02	<3.34	µg/m ³	30 µg/m ³
105L-PbA-006	Blank	<2.00	µg	30 µg/m ³
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105L-PbW-001	1st Floor Janitor Closet Floor	<10	µg/ft ²	200 µg/ft ²
105L-PbW-002	1st Floor HVAC Room Top of Duct	<10	µg/ft ²	200 µg/ft ²
105L-PbW-003	1st Floor Room 105 Top of Light	<10	µg/ft ²	200 µg/ft ²
105L-PbW-004	Blank	<10	µg	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
105L-PbV-001	1st Floor Hallway Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
105L-PbV-002	1st Floor HVAC Room Floor East Side	<92.9	µg/ft ²	200 µg/ft ²
105L-PbV-003	1st Floor Room 105 Carpet	<92.9	µg/ft ²	200 µg/ft ²
105L-PbV-004	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0615 (105L) - 1st FLOOR	DRAWN by: JWH
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: NTS
	916029



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159628

Matrix Wipe
Received 02/23/16
Analyzed 02/23/16
Reported 02/24/16

Project Goodfellow - 105L Training
Location St. Louis, MO
Number 916029

Table with 7 columns: Sample ID, Cust. Sample ID, Location Method, Sample Date Area, Total, Conc., RL*. Rows include sample details for Lead, EPA 7000B / 3050B, and various locations like Janitor Closet Floor, HVAC Room, etc.

Analyst MHB
159628-02/24/16 09:17 AM

(b) (6)

Reviewed By Abisola Kasali
Metals Supervisor

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabin.com e-mail: info@slabin.com



V:\159\159628

Submitting Co. OCQU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - 105L Training		Special Instructions [include requests for special reporting or data packages]
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>† A job received past 3PM will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type¹)	Wiped Area (ft²)	pH / Temp *	Time²		Flow Rate³		Total⁴ Air
						Start	Stop	Start	Stop	
105L-PbW-001	2-18-16	1600	Janitor Closet Floor	1SF						
PBW-002			HVAC Room - Top of Duct	1SF						
PbW-003			Rm 105 Top of Light	1SF						
PbW-004			Blank							
105L-PbV-001	2-18-16	1600	Hallway Ceiling Tile	100cm²						
-002			HVAC Room Floor	100cm²						
-003			Room 105 Carpet	100cm²						
-004			Blank							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Jeff Smith SIGNATURE (b) (6) DATE / TIME 2-18-16 1700	Relinquished to lab by Jeff Smith NAME (b) (6) SIGNATURE (b) (6) DATE / TIME 2-21-16 1600	2-23-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 776
---	---	---------------------------	---

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions apply.



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159039

Matrix: Air
Received: 02/17/16
Analyzed: 02/17/16
Reported: 02/18/16

Attn:
Project: Goodfellow Building 105L
Location: St. Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159039-001	105L-PbA-001	Column A14	02/12/16	165 min	3.63 L/min	599 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159039-002	105L-PbA-002	Column C14	02/12/16	166 min	3.34 L/min	554 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.61 µg/m3	<1.25 µg/m3
159039-003	105L-PbA-003	Column B9	02/12/16	166 min	3.63 L/min	603 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.32 µg/m3	<1.15 µg/m3
159039-004	105L-PbA-004	Column D8	02/12/16	167 min	3.63 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.30 µg/m3	<1.15 µg/m3
159039-005	105L-PbA-005	Column A2	02/12/16	165 min	3.63 L/min	599 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.34 µg/m3	<1.15 µg/m3
159039-006	105L-PbA-006	Blank	02/12/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: OHE
159039-02/18/16 01:05 PM

(b) (6)

Reviewed By: **Abisola Kasali**
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

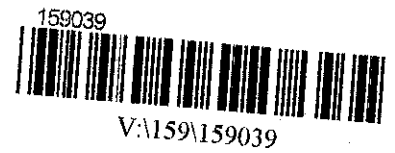
Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabin.com e-mail: info@slabin.com



Submitting Co. OCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@ocutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Building 105L	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type*)	Wiped Area (ft²)	pH / Temp.*	Time²		Flow Rate³		Total⁴ Air
						Start	Stop	Start	Stop	
105L-P6A-001	2/12/16	0800	Column A14	-		0800	1045	3.63	3.63	598.95
105L-P6A-002	2/12/16	0800	Column C14	-		0800	1046	3.63	3.05	554.44
105L-P6A-003	2/12/16	0801	Column B9	-		0801	1047	3.63	3.63	602.58
105L-P6A-004	2/12/16	0802	Column D8	-		0802	1049	3.63	3.63	606.21
105L-P6A-005	2/12/16	0805	Column A2	-		0805	1050	3.63	3.63	598.95
105L-P6A-006			BLANK							

*Type: A=Area B=Blank P=Personal E=Excursion †Beginning/End of Sample Period ‡Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Jay Hurst SIGNATURE (b) (6)	Relinquished to lab by Jay Hurst SIGNATURE (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2095
DATE / TIME 2/12/16 / 13:10	DATE / TIME 2/15/16 5:00	(b) (6)

* Temperature taken with IR Gun A. ** Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions apply.



**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mselabs.com • Website: www.mselabs.com

Date: February 22, 2016

Attention: Jay Hurst
OCCU-TEC Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2176OCCA.2
Goodfellow - Bldg 105L Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 17, 2016. These samples represent the final clearance TEM samples for the Goodfellow - Bldg 105L Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the five (5) samples taken inside the work area are summarized in Table I. TEM sample analysis printouts are also attached. Please note that the average number of asbestos structures per square millimeter (s/mm²) is 15.2 s/mm², which is below the specified clearance level of 70 s/mm² (40CFR Part 763).

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
Laboratory Director

SUMMARY OF AHERA TEM RESULTS

**TABLE I
Inside Samples**

Project Name: Goodfellow - Bldg 105L Project - OCC# 916029

McCall and Spero Project No: MSE-2176OCCA.2

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	105L-AA-001	NSD	NA	1328.25	0.0044	BDL (0.0044)*	BDL (15.2)*
I02	105L-AA-002	NSD	NA	1336.30	0.0044	BDL (0.0044)*	BDL (15.2)*
I03	105L-AA-003	NSD	NA	1336.30	0.0044	BDL (0.0044)*	BDL (15.2)*
I04	105L-AA-004	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*
I05	105L-AA-005	NSD	NA	1328.25	0.0044	BDL (0.0044)*	BDL (15.2)*
Average						0.0044	15.2

Filter Type: MCE
 Filter diameter: 25mm
 Effective filter Area: 385mm²
 Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
 Grid Openings Analyzed Per Sample: 7
 Area Analyzed Per Sample: 0.0658mm²
 Non-Asbestos Debris: Non-Fibrous Debris

Notes:

CH = Chrysotile A = Amosite BDL = Below Detectable Limit
 F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
 SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
 s/mm² - asbestos structures per square millimeter
 s/cc = asbestos structures per cubic centimeter

* Single fiber detection limits are used when no structures are detected.
 Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).
 This laboratory is in compliance with the specified method.
 Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

Laboratory Director:

Date: 2/22/16



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC. Telephone #: 816-231-5580 Fax #: 816-994-3470
 Contact: Jay Hurst Client Project Number: 916029
 Relinquished by: (b) (6) Date: 2/15/2016 Time: 5:00 pm
 Written Report To: jayhurst@occutec.com ; jsmith@occutec.com
 Project Name: Goodfellow Building 105L
 Turn-Around Time: (Circle One) 4 Hour | 6-8 Hour (same day) | 24 Hour | 2-3 Day | 4-5 Day | Weekend Rush | After Hour Rush

MSE Project #: MSE-217600CA.2 Comments: Intact
 Samples Received by: (b) (6) Date: 2/17/16 Time: 10:00 AM
 Sample To Be Analyzed by: TEM AHERA / EPA 40 CFR Part 763
 Samples Prepared By: (b) (6) Method: Burdett & Rood
 Samples Analyzed By: (b) (6) Date: 2/17/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
105L-AA-001	Column A-14	08:00	1045	165	8.05	1328.25
105L-AA-002	Column C-14	0800	1046	166	8.05	1336.3
105L-AA-003	Column B-9	0801	1047	166	8.05	1336.3
105L-AA-004	Column D-8	0802	1049	167	8.05	1344.35
105L-AA-005	Column A-2	0805	1050	165	8.05	1328.25
105L-AA-006	BLANK					

Results Transmitted/Date: _____ Fax/Phone By: _____

BUILDING 106

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

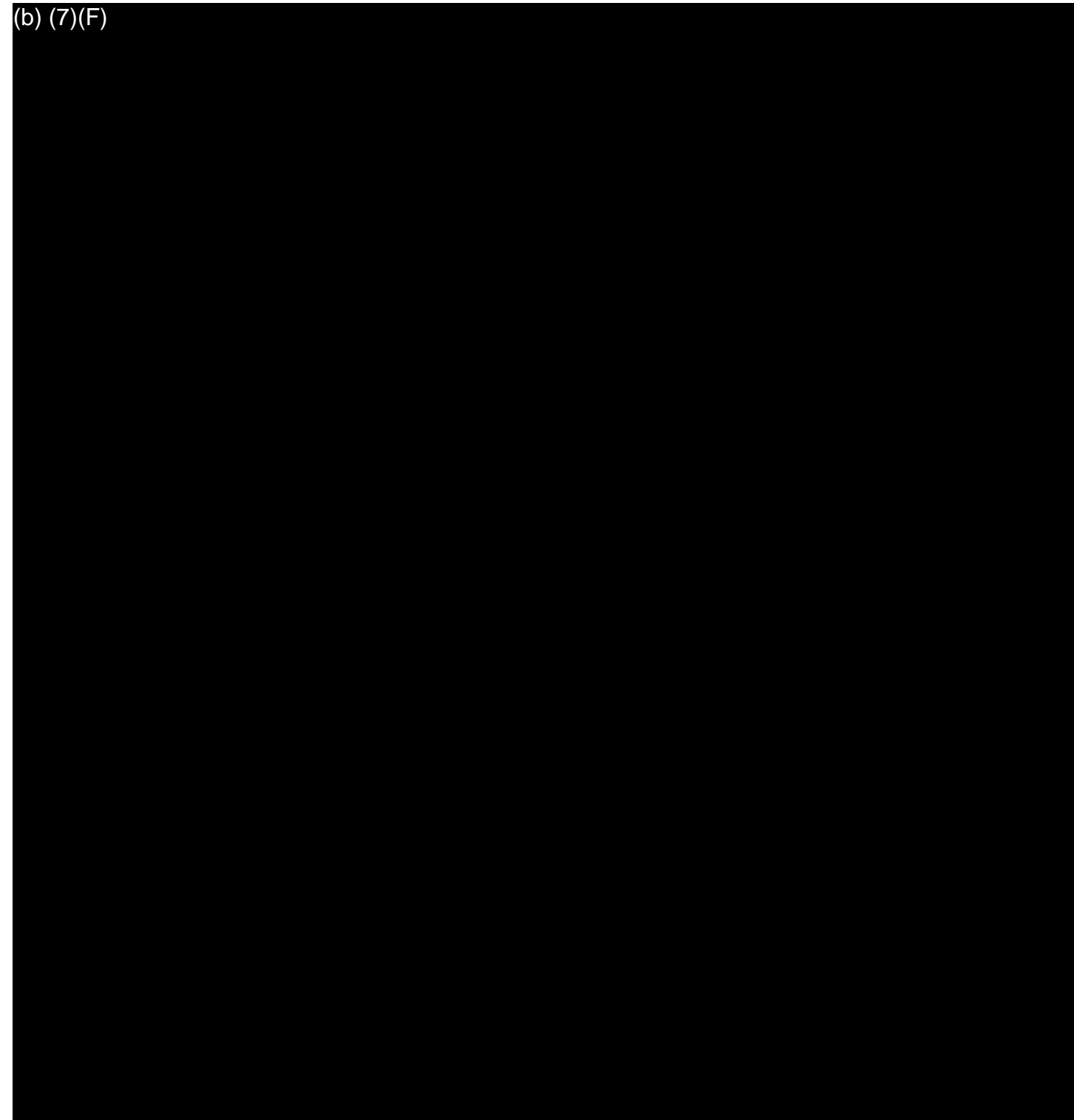
BUILDING 106				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
106-AA-001	Northeast Men's Locker Room	<17.7	s/mm ²	70 s/mm ²
106-AA-002	Northeast Break Area	<17.7	s/mm ²	70 s/mm ²
106-AA-003	Blank	Not Analyzed		
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
106-PbA-001	Northwest Guard Desk	<2.37	µg/m ³	30 µg/m ³
106-PbA-002	Northeast Break Area	<2.38	µg/m ³	30 µg/m ³
106-PbA-003	Blank	<2.00	µg	30 µg/m ³
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
106-PbW-001	Mechanical Room Floor	5900	µg/ft ²	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
N/A	N/A	N/A	µg/ft ²	200 µg/ft ²

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0626 (106) - 1st FLOOR		DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION		SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025		SCALE:	NTS
		916029	



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159643
-----------------	--------

Matrix Wipe
Received 02/23/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow Bldg 106
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Total	Conc.	RL*
Parameter		Method	Area			
159643-001	106-PbW-001	Mech Room Floor	02/16/16			
Lead		EPA 7000B / 3050B	1.00 ft2	5900 µg/wipe	5900 µg/ft2	250 µg/ft2

Analyst IH
159643-02/23/16 08:11 PM

(b) (6)

Reviewed By **Sultan Al-Johani**
Metals Team Leader

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com



159643
VA159A159643

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutech.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - Bldg 106	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam
		FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:		

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
106-PBW-001	2-16-16	1315	Mech Room Floor	1 ft ²						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME (b) (6) SIGNATURE (b) (6) DATE / TIME 2-16-16 1315	Relinquished to lab by NAME (b) (6) SIGNATURE (b) (6) DATE / TIME 2-21-16 1800	2-23-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB VWS: 2084
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> CI <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> X <input checked="" type="checkbox"/> Re			

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159040

Matrix: Air
Received: 02/17/16
Analyzed: 02/17/16
Reported: 02/18/16

Attn:
Project: Goodfellow-Building 106
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159040-001	106-PbA-001	NW Guard Desk	02/11/16	233 min	3.63 L/min	846 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<2.37 µg/m3	<1.15 µg/m3
159040-002	106-PbA-002	NE Break Area	02/11/16	232 min	3.63 L/min	842 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<2.38 µg/m3	<1.15 µg/m3
159040-003	106-PbA-003	Blank	02/11/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: OHE
159040-02/18/16 01:06 PM

(b) (6)

Reviewed By: **Abisola Kasali**
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com



V:\159\159040

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - Building 106 106	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
106-P6A-001	2/11/16	9:47	NORTHWEST GUARD DESK	—		9:47	13:40	3.63	3.63	845.79
106-P6A-002	2/11/16	9:48	NORTHEAST BREAK AREA	—		9:48	13:40	3.63	3.63	842.16
-003			Blank							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by JAY W. HURST SIGNATURE (b) (6) DATE / TIME 2/11/16 14:20	Relinquished to lab by Jay Hurst SIGNATURE (b) (6) DATE / TIME 2/15/16 5:00 pm	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input checked="" type="checkbox"/> Disposal by lab <small>(\$50 fee for excessive weight)</small> Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2095
--	---	---

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and



**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 22, 2016

Attention: Jay Hurst
OCCU-TEC

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2176OCCA
Goodfellow Building 106 Project
OCC#916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 17, 2016. These samples represent the TEM samples for the Goodfellow Building 106 Project - OCC#916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the two (2) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow Building 106 Project - OCC#916029

McCall and Spero Project No: MSE-2176OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	106-AA-001	NSD	NA	1867.6	0.0037	BDL (0.0037)*	BDL (17.7)*
I02	106-AA-002	NSD	NA	1883.7	0.0036	BDL (0.0036)*	BDL (17.7)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 6
Area Analyzed Per Sample: 0.0564mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

CH = Chrysotile A = Amosite BDL = Below Detectable Limit
F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.
Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

Laboratory Director:

Date: 2/22/16



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC.	Telephone #: 816-231-5580	Fax #: 816-994-3470
Contact: Jay Hurst	Client Project Number: 916029	
Relinquished by: (b) (6)	Date: 2/15/16	Time: 5:00 pm
Written Report To: jayhurst@occutec.com ; jsmith@occutec.com		
Project Name: Goodfellow Building 106	3 DAY	
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour <u>3 Day</u> 4-5 Day Weekend Rush After Hour Rush		

For Collection Use Only

MSE Project #: MSE- 2176 OCCA	Comments: Intact
Samples Received by: (b) (6)	Date: 02/17/16 Time: 10:00 AM
Sample To Be Analyzed by: TEM AHERA / EPA 40 CFR Part 763	
Samples Prepared By: (b) (6)	Method: Burdett & Rood
Samples Analyzed By: (b) (6)	Date: 2/17/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
106-AA-001	NORTHEAST MEN'S Locker Room	09:48	13:40	232	8.05	1867.6
106-AA-002	NORTHEAST BREAK AREA	09:46	13:40	234	8.05	1883.7
106-AA-003	Blank					

Results Transmitted/Date: _____ Fax/Phone By: _____

BUILDING 107

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 107				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
107-AA-001	2nd Floor Column C-02	<15.2	s/mm ²	70 s/mm ²
107-AA-002	2nd Floor Column A-07	<15.2	s/mm ²	70 s/mm ²
107-AA-003	2nd Floor Column A-13	<15.2	s/mm ²	70 s/mm ²
107-AA-004	1st Floor Column C-04	<15.2	s/mm ²	70 s/mm ²
107-AA-005	1st Floor Column C-07	<15.2	s/mm ²	70 s/mm ²
107-AA-006	1st Floor Column A-11	<15.2	s/mm ²	70 s/mm ²
107-AA-007	1st Floor Column F-12	<15.2	s/mm ²	70 s/mm ²
107-AA-008	Basement Column C-10	<15.2	s/mm ²	70 s/mm ²
107-AA-009	Basement Column A-12	<15.2	s/mm ²	70 s/mm ²
107-AA-010	Basement Column D-13	<15.2	s/mm ²	70 s/mm ²
107-AA-011	Basement Column A-14	<15.2	s/mm ²	70 s/mm ²
107-AA-012	Blank	Not Analyzed		
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
107-PbA-001	2nd Floor Column C-02	<3.80	µg/m ³	30 µg/m ³
107-PbA-002	2nd Floor Column A-07	<4.05	µg/m ³	30 µg/m ³
107-PbA-003	2nd Floor Column A-13	<4.07	µg/m ³	30 µg/m ³
107-PbA-004	1st Floor Column C-04	<3.75	µg/m ³	30 µg/m ³
107-PbA-005	1st Floor Column C-07	<3.24	µg/m ³	30 µg/m ³
107-PbA-006	1st Floor Column A-11	<3.55	µg/m ³	30 µg/m ³
107-PbA-007	1st Floor Column F-12	<3.93	µg/m ³	30 µg/m ³
107-PbA-008	Basement Column C-10	<3.53	µg/m ³	30 µg/m ³
107-PbA-009	Basement Column A-12	<3.72	µg/m ³	30 µg/m ³
107-PbA-010	Basement Column D-13	<3.68	µg/m ³	30 µg/m ³
107-PbA-011	Basement Column A-14	<3.62	µg/m ³	30 µg/m ³
107-PbA-012	Blank	<2.00	µg	30 µg/m ³

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

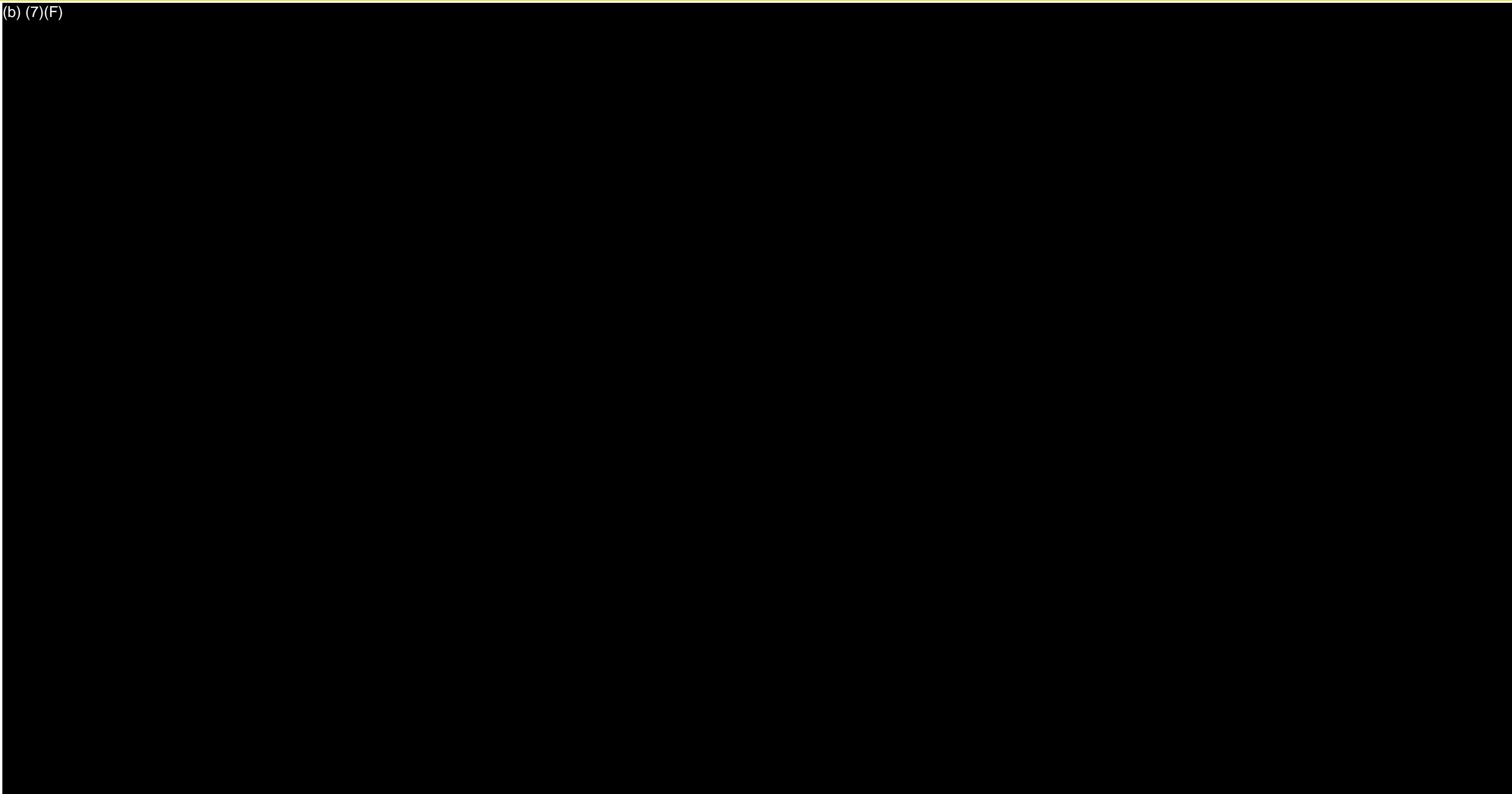
BUILDING 107				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
107-PbW-001	2nd Floor Column C-01 Ceiling Joist	183	µg/ft ²	200 µg/ft ²
107-PbW-002	2nd Floor Column F-06 Window Sill	<10	µg/ft ²	200 µg/ft ²
107-PbW-003	2nd Floor Column A-08.5 Floor Tile	<10	µg/ft ²	200 µg/ft ²
107-PbW-004	1st Floor Column A-11.5 Top of Light	<10	µg/ft ²	200 µg/ft ²
107-PbW-005	1st Floor Column D-04 Top of Duct	<10	µg/ft ²	200 µg/ft ²
107-PbW-006	1st Floor Column D-07.5 Top of Cabinet	<10	µg/ft ²	200 µg/ft ²
107-PbW-007	Basement Top of Air Handler	12.4	µg/ft ²	200 µg/ft ²
107-PbW-008	Basement Top of Transformer	16	µg/ft ²	200 µg/ft ²
107-PbW-009	Blank	<10	µg	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
107-PbV-001	2nd Floor Column F-06 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
107-PbV-002	2nd Floor Column C-08 Cabinet	<92.9	µg/ft ²	200 µg/ft ²
107-PbV-003	2nd Floor Column A-11 Carpet	<92.9	µg/ft ²	200 µg/ft ²
107-PbV-004	1st Floor Column D-25 Carpet	<92.9	µg/ft ²	200 µg/ft ²
107-PbV-005	1st Floor Concrete Floor	<92.9	µg/ft ²	200 µg/ft ²
107-PbV-006	Tunnel Floor	<92.9	µg/ft ²	200 µg/ft ²
107-PbV-007	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0602 (107) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE:	NTS
	916029	

(b) (7)(F)

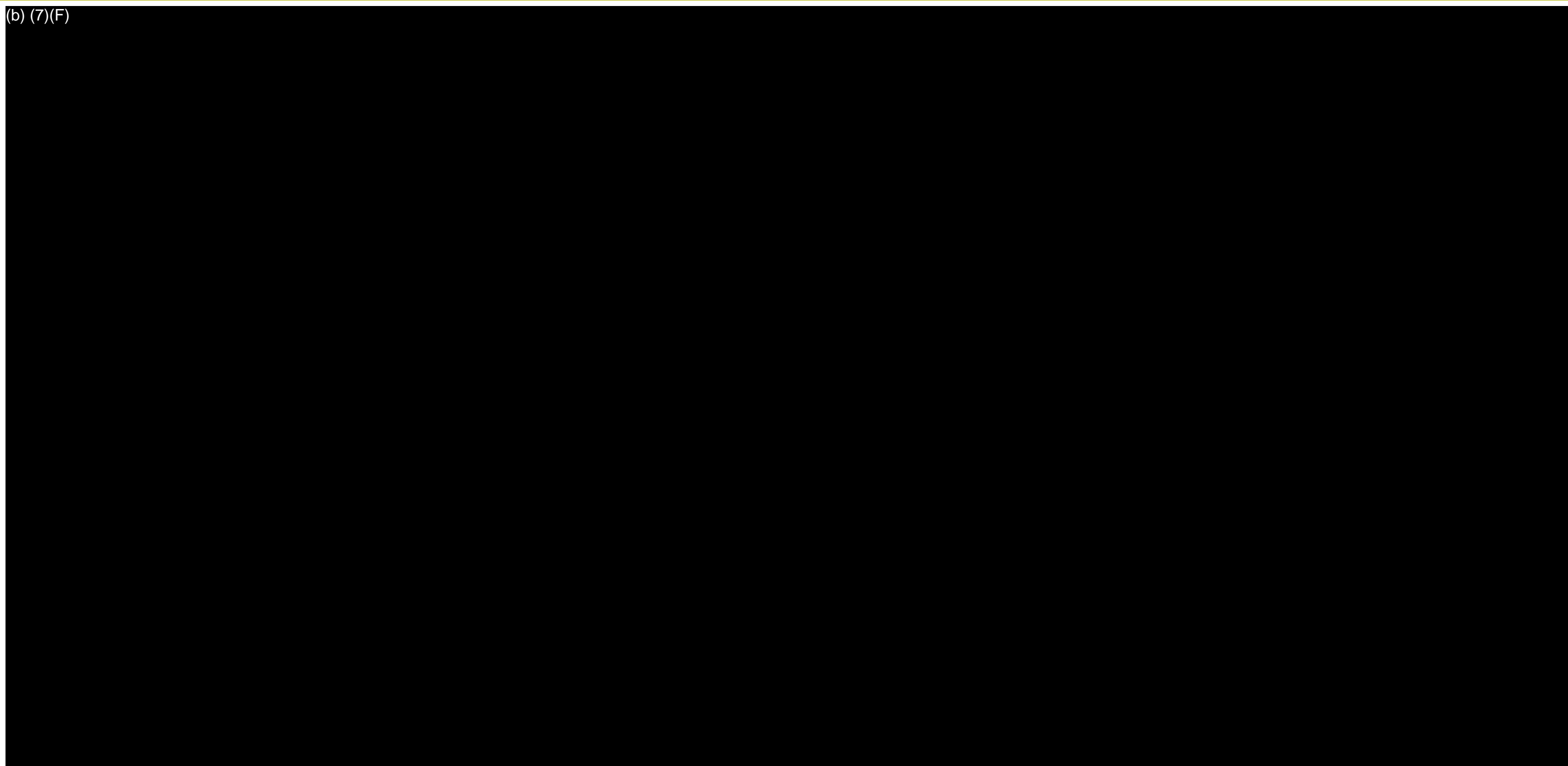
SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0602 (107) - 2nd FLOOR		DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION		SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025		SCALE:	NTS
		916029	

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0602 (107) - 1st FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159630

Matrix Wipe
Received 02/23/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow Bldg 107
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159630-001	107-PbV-001	2nd FI Ceiling @ F6	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159630-002	107-PbV-002	2nd Cabinet @ C8	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159630-003	107-PbV-003	2nd Carpet @ A11	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159630-004	107-PbV-004	1st Carpet @ D25	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159630-005	107-PbV-005	1st Concrete	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159630-006	107-PbV-006	Tunnel 1st FI	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159630-007	107-PbV-007	Blank	02/18/16			
Lead		EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 µg/wipe

Analyst MHB
159630-02/23/16 04:19 PM

(b) (6)

Reviewed By **Derek Jackson**
Analyst

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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159630



V:\159\159630

Submitting Co. OCCU-TEC Inc.		Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275		Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116		**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Bldg # 107	Special Instructions [include requests for special reporting or data packages]		
Project Location: St. Louis, MO			
Project Number: 916029			
PO Number:			

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
107-PbV-001	2-18-16	1700	2nd Fl Ceiling Tile @ F6	100cm ²						
-002			2nd Cabinet @ C8							
-003			2nd Carpet @ A11							
-004			1st Carpet @ D2S							
-005			1st Concrete							
-006			Tunnel 1st Fl							
-007			Blank							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: <u>Jess Smith</u> SIGNATURE: (b) (6) DATE / TIME: <u>2-18-16 1700</u>	Relinquished to lab by NAME: <u>Jess Smith</u> SIGNATURE: (b) (6) DATE / TIME: <u>2-21-16 1800</u>	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>1776</u>
--	--	---

* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within lab. Te



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159629

Matrix Wipe
Received 02/23/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow 107
Location St Louis MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter		Method	Area	Total	Conc.	RL*
159629-001	107-PbW-001	2nd FL Joist C1	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	183 µg/wipe	183 µg/ft2	10.0 µg/ft2
159629-002	107-PbW-002	2nd Window Sill F6	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159629-003	107-PbW-003	2nd Floor Tile A8.5	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159629-004	107-PbW-004	1st Top Light A11.5	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159629-005	107-PbW-005	1st Top Duct D4	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159629-006	107-PbW-006	1st Top Cabinet D7.5	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2
159629-007	107-PbW-007	Bsmt Air Handler	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	12.4 µg/wipe	12.4 µg/ft2	10.0 µg/ft2
159629-008	107-PbW-008	Bsmt Transformer	02/18/16			
Lead		EPA 7000B / 3050B	1.00 ft2	16.0 µg/wipe	16.0 µg/ft2	10.0 µg/ft2
159629-009	107-PbW-009	Blank	02/18/16			
Lead		EPA 7000B / 3050B		<10.0 µg/wipe		10.0 µg/wipe

Analyst MHB
159629-02/23/16 04:22 PM

(b) (6)

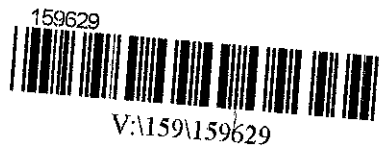
Reviewed By **Derek Jackson**
Analyst

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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 www.slabinc.com e-mail: info@slabinc.com



Submitting Co. OCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@ocutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow <i>153# 107</i>	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
107-P642-001	2-18-16	1700	2nd Fl Joist at C1	1 SF						
-002			2nd Window Sill at F6							
-003			2nd Floor Tile at A8.5							
-004			1st Top of Light @ A11.5							
-005			1st Top of Duct @ D4							
-006			1st Top of Cabinet @ D7.5							
-007			Bsmt - Air Handler							
-008			Bsmt - Transformer							
-009			Blank							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Signature: <i>Jeff Smith</i> DATE / TIME: <i>2-21-16 / 1300</i>	Relinquished to lab by NAME: _____ SIGNATURE: _____ DATE / TIME: _____	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <i>1776</i>
---	--	--

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within Lab. Term



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159038

Matrix: Air
Received: 02/17/16
Analyzed: 02/17/16
Reported: 02/18/16

Attn:
Project: Goodfellow 107
Location: St. Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159038-001	107-PbA-001	2 FL Column C2	02/10/16	145 min	3.63 L/min	526 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.80 µg/m3	<1.15 µg/m3
159038-002	107-PbA-002	2 FL Column A7	02/10/16	142 min	3.49 L/min	495 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.05 µg/m3	<1.20 µg/m3
159038-003	107-PbA-003	2 FL Column A13	02/10/16	141 min	3.49 L/min	491 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.07 µg/m3	<1.20 µg/m3
159038-004	107-PbA-004	1 FL Column C4	02/10/16	171 min	3.13 L/min	534 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.75 µg/m3	<1.34 µg/m3
159038-005	107-PbA-005	1 FL Column C7	02/10/16	170 min	3.63 L/min	617 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.24 µg/m3	<1.15 µg/m3
159038-006	107-PbA-006	1 FL Column A11	02/10/16	169 min	3.34 L/min	564 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.55 µg/m3	<1.25 µg/m3
159038-007	107-PbA-007	1 FL Column F12	02/10/16	163 min	3.13 L/min	509 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.93 µg/m3	<1.34 µg/m3
159038-008	107-PbA-008	Basement Column C10	02/10/16	170 min	3.34 L/min	568 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.53 µg/m3	<1.25 µg/m3
159038-009	107-PbA-009	Basement Column A12	02/10/16	172 min	3.13 L/min	538 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.72 µg/m3	<1.34 µg/m3
159038-010	107-PbA-010	Basement Column D13	02/10/16	174 min	3.13 L/min	544 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.68 µg/m3	<1.34 µg/m3
159038-011	107-PbA-011	Basement Column A14	02/10/16	177 min	3.13 L/min	553 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.62 µg/m3	<1.34 µg/m3
159038-012	107-PbA-012	Blank	02/10/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH
159038-02/18/16 12:27 PM

(b) (6)

Reviewed By: **Abisola Kasali**
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



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159038



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Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 107	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day † <input type="checkbox"/> 1 business day † <input type="checkbox"/> 2 business days † <input checked="" type="checkbox"/> 3 business days † <input type="checkbox"/> 5 business days † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> _____	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0800) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/> _____	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/> _____

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
107-P6A-001	2/10/16	13:57	2 ND FLOOR Column C2	—		13:57	16:22	3.63	3.63	526.35
107-P6A-002		14:03	2 ND FLOOR Column A7	—		14:03	16:25	3.63	3.34	474.28
107-P6A-003		14:07	2 ND FLOOR Column A13	—	94	14:07	16:28	3.63	3:34	470.94
107-P6A-004		14:30	1 ST FLOOR Column C4	—		14:30	17:21	3.63	2.62	534.37
107-P6A-005		14:39	1 ST FLOOR Column C7	—		14:39	17:29	3.63	3.63	617.10
107-P6A-006		14:44	1 ST FLOOR Column A11	—		14:44	17:33	3.63	3.05	564.46
107-P6A-007		14:54	1 ST FLOOR Column F12	—		14:54	17:37	3.63	2.62	509.37
107-P6A-008		15:20	BASEMENT Column C10	—		15:20	18:10	3.63	3.05	567.8
107-P6A-009		15:20	BASEMENT Column A12	—		15:20	18:12	3.63	2.62	537.5
107-P6A-010		15:20	BASEMENT Column D13	—		15:20	18:14	3.63	2.62	543.75

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [Time in min x flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by JAY HURST SIGNATURE (b) (6)	Relinquished to lab by JAY HURST SIGNATURE (b) (6)	2-17-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input checked="" type="checkbox"/> Disposal by lab (\$50 fee for excessive weight)
DATE / TIME 2/10/16	DATE / TIME 2/15/16 5:00pm		Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> Cl <input type="checkbox"/> R <input checked="" type="checkbox"/> S <input checked="" type="checkbox"/> X <input checked="" type="checkbox"/> Receive		WB: 2075	

* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within lab. Terms and conditions apply.



SCHNEIDER LABORATORIES GLOBAL, INC.

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www.slabin.com e-mail: info@slabin.com

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 107	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † * Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.	All samples on form should be of SAME matrix type. Use additional forms as needed. <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos In Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type*)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
107-P6A-011	2/10/16	15:20	BASEMENT Column A14	—		15:20	18:17	3.63	7.62	593.12
107-P6A-012			Blank							

*Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>JAY HURST</u> SIGNATURE (b) (6) DATE / TIME <u>2/10/16</u>	Relinquished to lab by NAME <u>Jay Hurst</u> SIGNATURE (b) (6) DATE / TIME <u>2/15/16 5:00pm</u>	<u>2-17-16</u> (b) (6)	Sample Disposal <input checked="" type="checkbox"/> Return to Sender (Shipping fees) <input checked="" type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2095</u>
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 22, 2016

Attention: Jay Hurst
OCCU-TEC

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2176OCCA.4
Goodfellow- Bldg #107 Project
OCC#916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 17, 2016. These samples represent the TEM samples for the Goodfellow- Bldg #107 Project - OCC#916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eleven (11) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow- Bldg #107 Project - OCC#916029

McCall and Spero Project No: MSE-2176OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	107-AA-001	NSD	NA	1435.68	0.0041	BDL (0.0041)*	BDL (15.2)*
I02	107-AA-002	NSD	NA	1445.65	0.0040	BDL (0.0040)*	BDL (15.2)*
I03	107-AA-003	NSD	NA	1465.59	0.0040	BDL (0.0040)*	BDL (15.2)*
I04	107-AA-004	NSD	NA	1376.55	0.0043	BDL (0.0043)*	BDL (15.2)*
I05	107-AA-005	NSD	NA	1368.50	0.0043	BDL (0.0043)*	BDL (15.2)*
I06	107-AA-006	NSD	NA	1360.45	0.0043	BDL (0.0043)*	BDL (15.2)*
I07	107-AA-007	NSD	NA	1312.15	0.0045	BDL (0.0045)*	BDL (15.2)*
I08	107-AA-008	NSD	NA	1368.50	0.0043	BDL (0.0043)*	BDL (15.2)*
I09	107-AA-009	NSD	NA	1384.60	0.0042	BDL (0.0042)*	BDL (15.2)*
I10	107-AA-010	NSD	NA	1734.78	0.0034	BDL (0.0034)*	BDL (15.2)*

Filter Type: MCE
 Filter diameter: 25mm
 Effective filter Area: 385mm²
 Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
 Grid Openings Analyzed Per Sample: 7
 Area Analyzed Per Sample: 0.0658mm²
 Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
 NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
 SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
 s/mm² - asbestos structures per square millimeter
 s/cc = asbestos structures per cubic centimeter
 * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
 The analysis was performed according to the TEM Method (40CFR part 763).
 This laboratory is in compliance with the specified method.
 Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 2/22/16

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow- Bldg #107 Project - OCC#916029

McCall and Spero Project No: MSE-2176OCCA.4

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I11	107-AA-011	NSD	NA	1424.85	0.0041	BDL (0.0041)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director: (b) (6) Date: 2/22/11



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

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TEM AHERA CHAIN OF CUSTODY FORM

Company: <u>OCCU-TEC INC.</u>	Telephone #: <u>816-231-5580</u>	Fax #: <u>816-994-3470</u>
Contact: <u>Jay Hurst</u>	Client Project Number: <u>916029</u>	
Relinquished by: <u>(b) (6)</u>	Date: <u>2/15/16</u>	Time: <u>5:00 pm</u>
Written Report To: <u>jayhurst@occutec.com ; jsmith@occutec.com</u>		
Project Name: <u>Goodfellow Bldg # 107</u>		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour (same day) 24 Hour <u>3 Day</u> 4-5 Day Weekend Rush After Hour Rush		

MSE Project #: <u>MSE-217600CA4</u>	Comments: <u>Insect</u>
Samples Received by: <u>(b) (6)</u>	Date: <u>02/17/16</u> Time: <u>10:00 AM</u>
Sample To Be Analyzed by: <u>TEM AHERA / EPA 40CFR Part 763</u>	
Samples Prepared By: <u>(b) (6)</u>	Method: <u>Burdett & Rood</u>
Samples Analyzed By: <u>(b) (6)</u>	Date: <u>2/22/16</u>

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
107-AA-001	2nd Fl Corridor at C-2	1357	1621	144	9.97	1435.68
-002	2nd Fl Column A-7	1359	1624	145	9.97	1445.65
-003	2nd Fl Column A-13	1401	1628	147	9.97	1465.59
-004	1st Fl - Column G-4	1430	1721	171	8.05	1376.55
-005	1st Fl - Column G-7	1439	1729	170	8.05	1368.5
-006	1st Fl - Column A-11	1444	1733	169	8.05	1360.45
-007	1st Fl - Column F-12	1454	1737	163	8.05	1312.15
-008	Bsmt - Column C-10	1520	1810	170	8.05	1368.5
-009	Bsmt - Column A-12	1520	1812	172	8.05	1384.6
-010	Bsmt - Column D-13	1520	1814	174	9.97	1734.78
-011	Bsmt - Column A-14	1520	1817	177	8.05	1424.85
-012	Blank	—	—			

Results Transmitted/Date: _____ Fax/Phone By: _____

BUILDING 110

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 110				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
110-AA-001	2nd Floor Column L-12	<15.2	s/mm ²	70 s/mm ²
110-AA-002	2nd Floor Column N-15	<15.2	s/mm ²	70 s/mm ²
110-AA-003	2nd Floor Column G-14	<15.2	s/mm ²	70 s/mm ²
110-AA-004	2nd Floor Column D-15	<15.2	s/mm ²	70 s/mm ²
110-AA-005	2nd Floor Column E-11	<15.2	s/mm ²	70 s/mm ²
110-AA-006	2nd Floor Column D-08	<15.2	s/mm ²	70 s/mm ²
110-AA-007	2nd Floor Column E-05	<15.2	s/mm ²	70 s/mm ²
110-AA-008	2nd Floor Column E-02	<15.2	s/mm ²	70 s/mm ²
110-AA-009	2nd Floor Column H-03	<15.2	s/mm ²	70 s/mm ²
110-AA-010	2nd Floor Column L-03	<15.2	s/mm ²	70 s/mm ²
110-AA-011	2nd Floor Column F-05	<15.2	s/mm ²	70 s/mm ²
110-AA-012	2nd Floor Column F-08	<15.2	s/mm ²	70 s/mm ²
110-AA-013	1st Floor Column L-12	<15.2	s/mm ²	70 s/mm ²
110-AA-014	1st Floor Column M-15	<15.2	s/mm ²	70 s/mm ²
110-AA-015	1st Floor Column F-15	<15.2	s/mm ²	70 s/mm ²
110-AA-016	1st Floor Column D-13	<15.2	s/mm ²	70 s/mm ²
110-AA-017	1st Floor Column B-14	<15.2	s/mm ²	70 s/mm ²
110-AA-018	1st Floor Column D-10	<15.2	s/mm ²	70 s/mm ²
110-AA-019	1st Floor Column F-10	<15.2	s/mm ²	70 s/mm ²
110-AA-020	1st Floor Column B-06	<15.2	s/mm ²	70 s/mm ²
110-AA-021	1st Floor Column E-07	<15.2	s/mm ²	70 s/mm ²
110-AA-022	1st Floor Column C-04	<15.2	s/mm ²	70 s/mm ²
110-AA-023	1st Floor Column D-03	<15.2	s/mm ²	70 s/mm ²
110-AA-024	1st Floor Column J-03	<15.2	s/mm ²	70 s/mm ²
110-AA-025	Basement Column A-15	30.4	s/mm ²	70 s/mm ²
110-AA-027	Basement Column D-14	<15.2	s/mm ²	70 s/mm ²
110-AA-028	Basement Column D-10	15.2	s/mm ²	70 s/mm ²
110-AA-029	Basement Column A-11	<15.2	s/mm ²	70 s/mm ²
110-AA-030	Basement Column G-10	30.4	s/mm ²	70 s/mm ²
110-AA-036	Blank	<10.6	s/mm ²	70 s/mm ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 110				
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
110-PbA-001	2nd Floor Column L-12	<3.46	µg/m ³	30 µg/m ³
110-PbA-002	2nd Floor Column N-15	<3.35	µg/m ³	30 µg/m ³
110-PbA-003	2nd Floor Column G-14	<3.42	µg/m ³	30 µg/m ³
110-PbA-004	2nd Floor Column D-15	<3.30	µg/m ³	30 µg/m ³
110-PbA-005	2nd Floor Column E-11	<3.33	µg/m ³	30 µg/m ³
110-PbA-006	2nd Floor Column D-08	<3.33	µg/m ³	30 µg/m ³
110-PbA-007	2nd Floor Column E-05	<3.35	µg/m ³	30 µg/m ³
110-PbA-008	2nd Floor Column E-02	<3.37	µg/m ³	30 µg/m ³
110-PbA-009	2nd Floor Column H-03	<3.22	µg/m ³	30 µg/m ³
110-PbA-010	2nd Floor Column L-03	<3.78	µg/m ³	30 µg/m ³
110-PbA-011	2nd Floor Column F-05	<3.27	µg/m ³	30 µg/m ³
110-PbA-012	2nd Floor Column F-08	<3.30	µg/m ³	30 µg/m ³
110-PbA-013	1st Floor Column L-12	<3.67	µg/m ³	30 µg/m ³
110-PbA-014	1st Floor Column M-15	<3.71	µg/m ³	30 µg/m ³
110-PbA-015	1st Floor Column F-15	<3.86	µg/m ³	30 µg/m ³
110-PbA-016	1st Floor Column D-13	<3.79	µg/m ³	30 µg/m ³
110-PbA-017	1st Floor Column B-14	<3.88	µg/m ³	30 µg/m ³
110-PbA-018	1st Floor Column D-10	<3.95	µg/m ³	30 µg/m ³
110-PbA-019	1st Floor Column F-10	<3.82	µg/m ³	30 µg/m ³
110-PbA-020	2nd Floor Column B-06	<4.88	µg/m ³	30 µg/m ³
110-PbA-021	1st Floor Column E-07	<4.39	µg/m ³	30 µg/m ³
110-PbA-022	1st Floor Column C-04	<3.82	µg/m ³	30 µg/m ³
110-PbA-023	1st Floor Column D-03	<3.88	µg/m ³	30 µg/m ³
110-PbA-024	1st Floor Column J-03	<3.95	µg/m ³	30 µg/m ³
110-PbA-025	Basement Column A-15	<3.21	µg/m ³	30 µg/m ³
110-PbA-027	Basement Column D-14	<3.17	µg/m ³	30 µg/m ³
110-PbA-028	Basement Column D-10	<3.12	µg/m ³	30 µg/m ³
110-PbA-029	Basement Column A-11	<3.14	µg/m ³	30 µg/m ³
110-PbA-030	Basement Column G-10	<2.97	µg/m ³	30 µg/m ³
110-PbA-031	Blank	<2.00	µg	30 µg/m ³

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

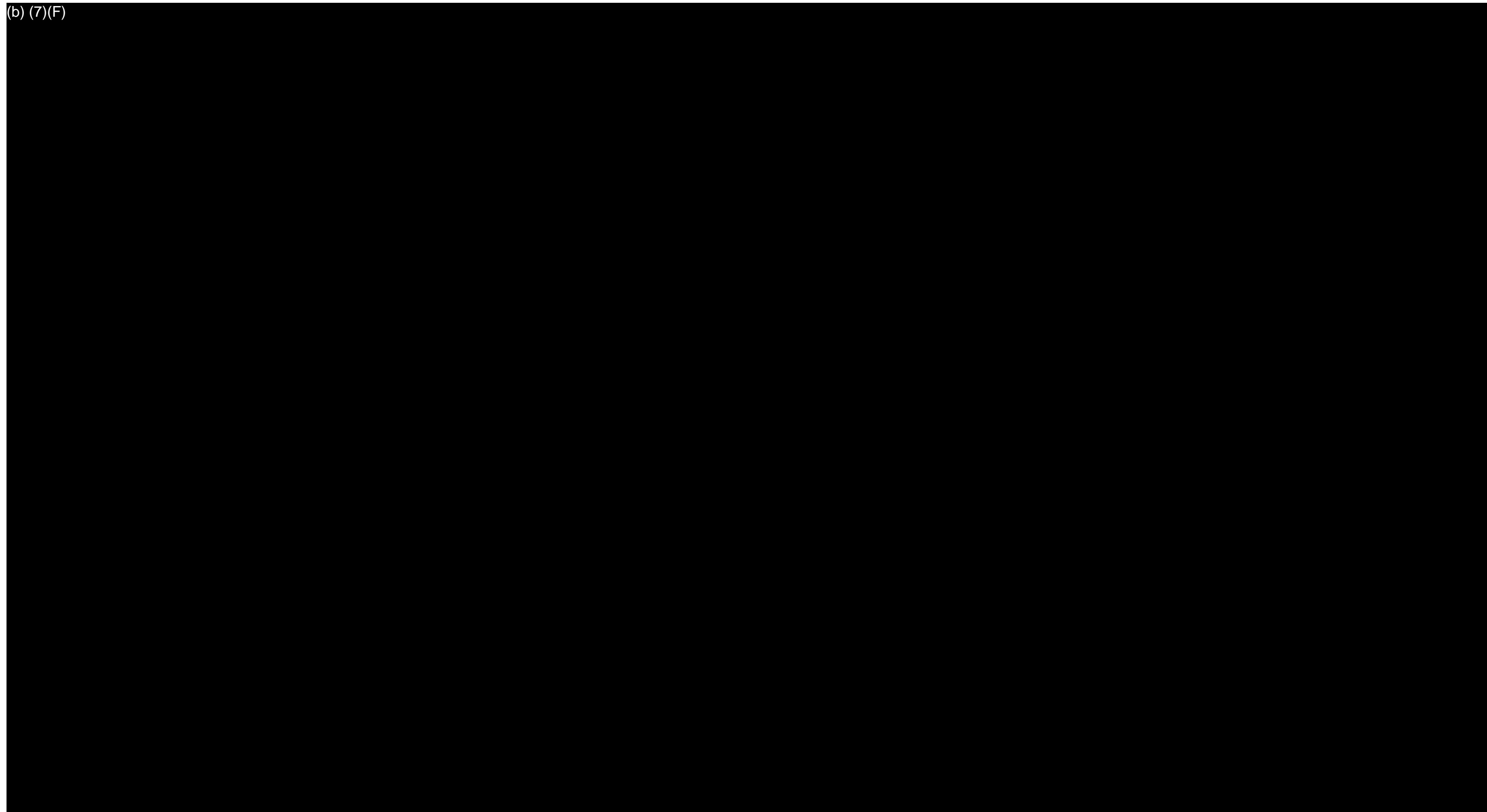
µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 110				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
110-PbW-001	2nd Floor Column D-15 Floor	<10	µg/ft ²	200 µg/ft ²
110-PbW-002	2nd Floor Column D-15 Closet Shelf	<10	µg/ft ²	200 µg/ft ²
110-PbW-003	2nd Floor Column C-03 Top of Light	68.1	µg/ft ²	200 µg/ft ²
110-PbW-004	2nd Floor Column C-03 Cabinet	<10	µg/ft ²	200 µg/ft ²
110-PbW-005	2nd Floor Column F-08 Shelf	<10	µg/ft ²	200 µg/ft ²
110-PbW-006	2nd Floor Column G-08 Window Sill	<10	µg/ft ²	200 µg/ft ²
110-PbW-007	1st Floor Column E-17 Transformer	173	µg/ft ²	200 µg/ft ²
110-PbW-008	1st Floor Column E-16 Top of Refrigerator	<10	µg/ft ²	200 µg/ft ²
110-PbW-009	1st Floor Column G-14 Top of Light	12.9	µg/ft ²	200 µg/ft ²
110-PbW-010	1st Floor Column W-10 Top of Cabinet	<10	µg/ft ²	200 µg/ft ²
110-PbW-011	1st Floor Column E-06 Warehouse Floor	73.5	µg/ft ²	200 µg/ft ²
110-PbW-012	1st floor - Column G 3 - Janitor Closet Floor	28.9	µg/ft ²	200 µg/ft ²
110-PbW-013	Basement Column C-04 Floor	813	µg/ft ²	200 µg/ft ²
110-PbW-014	Basement Column J-04 Duct	696	µg/ft ²	200 µg/ft ²
110-PbW-015	Basement Column G-11 Floor	364	µg/ft ²	200 µg/ft ²
110-PbW-016	Blank	<10	µg	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
110-PbV-001	2nd Floor Column M-12 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-002	2nd Floor Column D-15 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-003	2nd Floor Column D-09 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-004	2nd Floor Column F-02 Carpet	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-005	2nd Floor Column F-10 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-006	2nd Floor Column F-10 Carpet	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-007	1st Floor Column E-17 Floor	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-008	1st Floor Column G-14 Carpet	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-009	1st Floor Column C-14 Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-010	1st Floor Column D-15 Elevator Tread	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-011	1st Floor - Column G 3 - Hallway Top of Ceiling Tile	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-012	1st Floor - Column G 2 - Stairwell Landing Floor	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-013	Basement - Column A.5 5 Bay Landing Floor	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-014	Basement Column M-05 Concrete Step	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-015	Basement Column D-10 Top of Pipe	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-016	Basement East Tunnel Floor	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-017	Basement Column M-17 Tank Room Brick Stair	<92.9	µg/ft ²	200 µg/ft ²
110-PbV-018	Basement West Tunnel Entrance Floor	8730	µg/ft ²	200 µg/ft ²
110-PbV-019	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0618 (110) - Basement		DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION		SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025		SCALE:	NTS
		916029	

(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE:
GOODFELLOW MO0618 (110) - 2nd FLOOR

CLIENT NAME:
GENERAL SERVICES ADMINISTRATION

PROJECT NAME:
GOODFELLOW GS-P-16-16-GZ7025

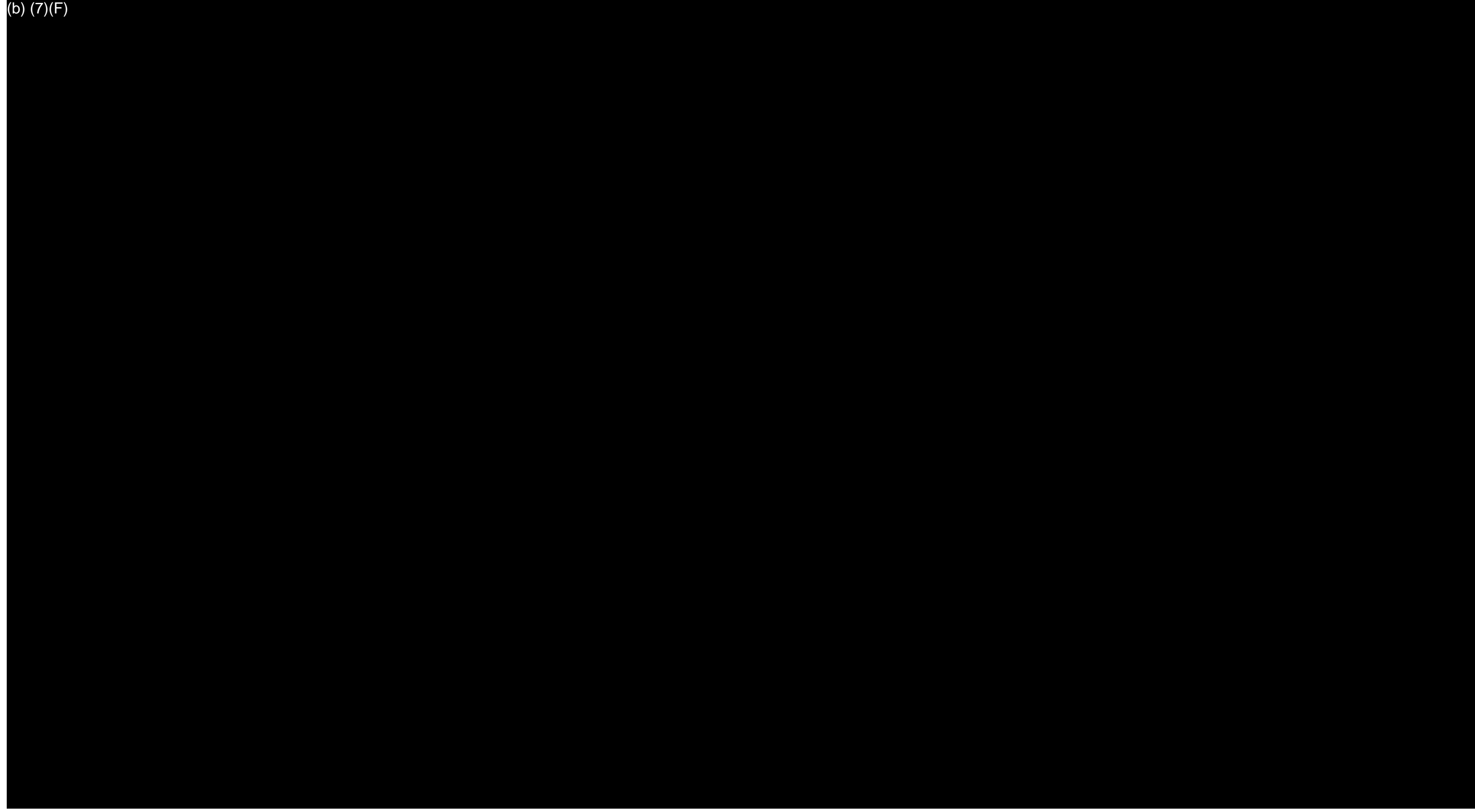
DRAWN by: JWH

SUB. DATE: 03/04/16

SCALE: NTS

916029

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0618 (110) - 1st FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159786
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Matrix Wipe
Received 02/24/16
Analyzed 02/24/16
Reported 02/24/16

Project Goodfellow 110
Location St. Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date				
Parameter		Method	Area	Total	Conc.	RL*	
159786-001	110-PbW-001	2nd D15 Floor	02/18/16				
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2	
159786-002	110-PbW-002	2nd D15 Closet Shelf	02/18/16				
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2	
159786-003	110-PbW-003	2nd C3 Light Fixture	02/18/16				
Lead		EPA 7000B / 3050B	1.00 ft2	68.1 µg/wipe	68.1 µg/ft2	10.0 µg/ft2	
159786-004	110-PbW-004	2nd C3 Cabinet	02/18/16				
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2	
159786-005	110-PbW-005	2nd F8 Shelf	02/18/16				
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2	
159786-006	110-PbW-006	2nd G8 Window Sill	02/18/16				
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2	
159786-007	110-PbW-007	1st E17 Transformer	02/19/16				
Lead		EPA 7000B / 3050B	1.00 ft2	173 µg/wipe	173 µg/ft2	10.0 µg/ft2	
159786-008	110-PbW-008	1st E16 Top Fridge	02/19/16				
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2	
159786-009	110-PbW-009	1st G14 Light Fixture	02/19/16				
Lead		EPA 7000B / 3050B	1.00 ft2	12.9 µg/wipe	12.9 µg/ft2	10.0 µg/ft2	
159786-010	110-PbW-010	1st W10 Top Cabinet	02/19/16				
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2	
159786-011	110-PbW-011	1st E6 Warehouse Floor	02/19/16				
Lead		EPA 7000B / 3050B	1.00 ft2	73.5 µg/wipe	73.5 µg/ft2	10.0 µg/ft2	
159786-012	110-PbW-012	1st Janitor Closet Floor	02/19/16				
Lead		EPA 7000B / 3050B	1.00 ft2	28.9 µg/wipe	28.9 µg/ft2	10.0 µg/ft2	
159786-013	110-PbW-013	Basement L4 Floor	02/23/16				
Lead		EPA 7000B / 3050B	1.00 ft2	813 µg/wipe	813 µg/ft2	20.0 µg/ft2	
159786-014	110-PbW-014	Basement J4 Duct	02/23/16				

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159786
-----------------	--------

Matrix Wipe
Received 02/24/16
Analyzed 02/24/16
Reported 02/24/16

Project Goodfellow 110
Location St. Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter		Method					
Lead		EPA 7000B / 3050B		1.00 ft2	696 µg/wipe	696 µg/ft2	20.0 µg/ft2
159786-015	110-PbW-015	Basement G11 Floor	02/23/16				
Lead		EPA 7000B / 3050B		1.00 ft2	364 µg/wipe	364 µg/ft2	10.0 µg/ft2
159786-016	110-PbW-016	Blank	02/23/16				
Lead		EPA 7000B / 3050B			<10.0 µg/wipe		10.0 µg/wipe

Analyst OHE
159786-02/24/16 04:21 PM

(b) (6)

Reviewed By **Eric Broaddus**
Analyst

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

159786



VA159A159786

Submitting Co. OCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 110	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>† A job received past 3PM will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
110-PBW-001	2/15		2 nd - D15 - Floor	1						
110-PBW-002			2 nd - D15 - Closet Shelf	1						
110-PBW-003			2 nd - C3 - Light fixture	1						
110-PBW-004			2 nd - C3 - Cabinet	1						
110-PBW-005			2 nd - F7 - Shelf	1						
110-PBW-006			2 nd - G8 - Window Sill	1						
110-PBW-007	2/19		1 st - E17 - Transformer	1						
110-PBW-008			1 st - E16 - Top of Fridge	1						
110-PBW-009			1 st - G14 - Light fixture	1						
110-PBW-010			1 st - W10 - Top of Cabinet	1						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min × flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: J.P. Smith SIGNATURE: (b) (6) DATE / TIME: 2-23-16	Relinquished to lab by NAME: J.P. Smith SIGNATURE: (b) (6) DATE / TIME: 2-23-16	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2218
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* Temperature taken with IR Gun A. **Required Chain-of-Custody documentation continued internally within lab. Term



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WO Label

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 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 110	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
110-PBW-011	2/19		1 st - Ele - Warehouse floor	1						
110-PBW-012	↓		1 st - Janitor - Closed floor	1						
110-PBW-013	2/23		Basement - L4 - Floor	1						
110-PBW-014	↓		Basement - J4 - Duct	1						
110-PBW-015	↓		Basement - G11 - Floor	1						
110-PBW-016	-	-	Blank	-	-	-	-	-	-	-

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Fail/Lure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME: Jeff Smith SIGNATURE: [Signature] DATE / TIME: 2-23-16	Relinquished to lab by NAME: Jeff Smith SIGNATURE: [Signature] DATE / TIME: 2/23/16 1800	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2213
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Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159785

Matrix: Air
Received: 02/24/16
Analyzed: 02/24/16
Reported: 02/25/16

Attn:
Project: Goodfellow Fed Center Bldg 110
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume
Parameter	Method		Total	RL*	Conc.	8 Hr TWA
159785-001	110-PbA-01	2nd FL L12	02/18/16	190 min	3.05 L/min	580 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.46 µg/m3	<1.37 µg/m3
159785-002	110-PbA-02	2nd FL N15	02/18/16	196 min	3.05 L/min	598 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.35 µg/m3	<1.37 µg/m3
159785-003	110-PbA-03	2nd FL G14	02/18/16	192 min	3.05 L/min	586 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.42 µg/m3	<1.37 µg/m3
159785-004	110-PbA-04	2nd FL D15	02/18/16	199 min	3.05 L/min	607 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.30 µg/m3	<1.37 µg/m3
159785-005	110-PbA-05	2nd FL E11	02/18/16	197 min	3.05 L/min	601 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.33 µg/m3	<1.37 µg/m3
159785-006	110-PbA-06	2nd FL D8	02/18/16	197 min	3.05 L/min	601 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.33 µg/m3	<1.37 µg/m3
159785-007	110-PbA-07	2nd FL E5	02/18/16	196 min	3.05 L/min	598 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.35 µg/m3	<1.37 µg/m3
159785-008	110-PbA-08	2nd FL E2	02/18/16	195 min	3.05 L/min	595 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.37 µg/m3	<1.37 µg/m3
159785-009	110-PbA-09	2nd FL H3	02/18/16	204 min	3.05 L/min	622 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.22 µg/m3	<1.37 µg/m3
159785-010	110-PbA-10	2nd FL L3	02/18/16	202 min	2.62 L/min	529 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.78 µg/m3	<1.59 µg/m3
159785-011	110-PbA-11	2nd FL F5	02/18/16	201 min	3.05 L/min	613 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.27 µg/m3	<1.37 µg/m3
159785-012	110-PbA-12	2nd FL F8	02/18/16	199 min	3.05 L/min	607 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.30 µg/m3	<1.37 µg/m3
159785-013	110-PbA-13	1st FL L12	02/19/16	179 min	3.05 L/min	546 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.67 µg/m3	<1.37 µg/m3
159785-014	110-PbA-14	1st FL M15	02/19/16	177 min	3.05 L/min	540 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.71 µg/m3	<1.37 µg/m3
159785-015	110-PbA-15	1st FL F15	02/19/16	170 min	3.05 L/min	519 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.86 µg/m3	<1.37 µg/m3
159785-016	110-PbA-16	1st FL D13	02/19/16	173 min	3.05 L/min	528 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.79 µg/m3	<1.37 µg/m3
159785-017	110-PbA-17	1st FL B14	02/19/16	169 min	3.05 L/min	515 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.88 µg/m3	<1.37 µg/m3

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159785
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Matrix Air
Received 02/24/16
Analyzed 02/24/16
Reported 02/25/16

Attn:
Project: Goodfellow Fed Center Bldg 110
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159785-018	110-PbA-18	1st FL D10	02/19/16	166 min	3.05 L/min	506 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.95 µg/m3	<1.37 µg/m3
159785-019	110-PbA-19	1st FL F10	02/19/16	172 min	3.05 L/min	525 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.82 µg/m3	<1.37 µg/m3
159785-020	110-PbA-20	1st FL B6	02/19/16	175 min	2.34 L/min	410 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.88 µg/m3	<1.78 µg/m3
159785-021	110-PbA-21	1st FL E7	02/19/16	174 min	2.62 L/min	456 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<4.39 µg/m3	<1.59 µg/m3
159785-022	110-PbA-22	1st FL C4	02/19/16	172 min	3.05 L/min	525 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.82 µg/m3	<1.37 µg/m3
159785-023	110-PbA-23	1st FL D3	02/19/16	169 min	3.05 L/min	515 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.88 µg/m3	<1.37 µg/m3
159785-024	110-PbA-24	1st FL J3	02/19/16	166 min	3.05 L/min	506 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.95 µg/m3	<1.37 µg/m3
159785-025	110-PbA-25	Bsmt A15	02/23/16	170 min	3.67 L/min	624 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.21 µg/m3	<1.14 µg/m3
159785-026	110-PbA-27	Bsmt D14	02/23/16	172 min	3.67 L/min	631 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.17 µg/m3	<1.14 µg/m3
159785-027	110-PbA-28	Bsmt D10	02/23/16	175 min	3.67 L/min	642 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.12 µg/m3	<1.14 µg/m3
159785-028	110-PbA-29	Bsmt A11	02/23/16	174 min	3.67 L/min	639 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.14 µg/m3	<1.14 µg/m3
159785-029	110-PbA-30	Bsmt G10	02/23/16	184 min	3.67 L/min	675 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<2.97 µg/m3	<1.14 µg/m3
159785-030	110-PbA-31	Blank	02/23/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159785
-----------------	--------

Matrix Air
Received 02/24/16
Analyzed 02/24/16
Reported 02/25/16

Attn:
Project: Goodfellow Fed Center Bldg 110
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume
Parameter		Method	Total	RL*	Conc.	8 Hr TWA

Analyst: IH
159785-02/25/16 08:37 AM

(b) (6)

Reviewed By: **Abisola Kasali**
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



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159785



V:\159\159785

Submitting Co. OCCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - Bldg 110	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/>	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/>	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> <input type="checkbox"/> Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others <input type="checkbox"/>
		FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED:		

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
110-PLA-01	2-18	9:00	2nd Fl at Col L-12			9:01	12:11	3.05	3.05	585.6
-02			" " N-15			9:08	12:24	3.05	3.05	600.85
-03			" " G-14			9:17	12:29	3.05	3.05	591.7
-04			" " D-15			9:24	12:43	3.05	3.05	603.9
-05			" " E-11			9:37	12:54	3.05	3.05	616.10
-06			" " D-8			9:43	13:00	3.05	3.05	600.85
-07			" " E-5			9:52	13:08	3.05	3.05	597.8
-08			" " E-2			9:59	13:14	3.05	3.05	594.75
-09			" " H-3			10:09	13:33	3.05	3.05	622.2
-10			" " L-3			10:19	13:41	2.62	2.62	610.1
-11			" " F-5			10:29	13:50	3.05	3.05	613.05
-12			" " F-8			10:33	13:56	3.05	3.05	606.95

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-18-16</u>	Relinquished to lab by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-23-16 1800</u>	Sample Disposal <small>If samples over req. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2212</u>
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Sample return requested Ambient temp Ice Cl R S X Rece

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and



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WO Label

Submitting Co. OCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - Bldg 110	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* * not available for all tests Schedule rush organics, multi-metals & weekend tests in advance.	All samples on form should be of SAME matrix type. Use additional forms as needed. <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/4.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED: _____	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <input type="checkbox"/> _____ Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others <input type="checkbox"/> _____

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
110-P6A-13	2-19-16	7:30	1st Floor qt Col L12			7:29	10:28	3.05	3.05	545.95
-14			" " MIS			7:34	10:31	3.05	3.05	539.85
-15			" " FIS			7:43	10:33	3.05	3.05	518.5
-16			" " D13			7:51	10:44	3.05	3.05	527.65
-17			" " B14			7:58	10:47	3.05	3.05	515.45
-18			" " D10			8:06	10:52	3.05	3.05	506.3
-19			" " F10			8:15	11:07	3.05	3.05	524.6
-20			" " B6			8:31	11:26	2.62	2.07	409.5
-21			" " E7			8:42	11:36	2.62	2.62	482.08
-22			" " C4			8:58	11:50	3.05	3.05	524.6
-23			" " D3			9:06	11:55	3.05	3.05	518.5
-24			" " J3			9:13	11:59	3.05	3.05	506.3

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-19-16</u>	Relinquished to lab by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-23-16 1800</u>	Sample Disposal if samples over fee, weight (Refer to Fee Schedule) <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2218</u>
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and



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 www.slabinc.com e-mail: info@slabinc.com

WO Label

Submitting Co. OCCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutech.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - Bldg 110	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Bulk <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Oil <input type="checkbox"/> Paint <input type="checkbox"/> Sludge <input type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Waste <input type="checkbox"/> Wastewater <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Compliance <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Wipe, Composite <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> _____	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.11.4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield) <input type="checkbox"/> _____ FOR ASBESTOS AIR: TYPE OF RESPIRATOR USED: _____	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <input type="checkbox"/> _____ Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> _____ Others <input type="checkbox"/> _____

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
110-P8A-25	2-23-16	1030	Bsmt at Col A 15			1034	1324	3.67	3.67	623.9
-27			Bsmt D14			1038	1330	3.67	3.67	631.24
-28			Bsmt D10			1041	1336	3.67	3.67	642.25
-29			Bsmt A 11			1040	1334	3.67	3.67	638.58
-30			Bsmt G 10			1042	1346	3.67	3.67	675.28
-31			Blank							

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by ME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-23-16</u>	Relinquished to lab by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-23-16 1800</u>	Sample Disposal <small>If samples over req. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WE: <u>2-23-16</u>
--	---	--

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Temp



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159783

Matrix Wipe
Received 02/24/16
Analyzed 02/24/16
Reported 03/04/16

Project Goodfellow 110
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter		Method					
159783-001	110-PbV-001	2nd Floor CT M12	02/18/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-002	110-PbV-002	2nd Floor D15 CT	02/18/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-003	110-PbV-003	2nd Floor D9 CT	02/18/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-004	110-PbV-004	2nd Floor F2 Carpet	02/18/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-005	110-PbV-005	2nd Floor F10 CT	02/18/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-006	110-PbV-006	2nd Floor F10 Carpet	02/18/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-007	110-PbV-007	1st Floor E17 Floor	02/19/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-008	110-PbV-008	1st Floor G14 Carpet	02/19/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-009	110-PbV-009	1st Floor C14 CT	02/19/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-010	110-PbV-010	1st Floor D15 Elev Tred	02/19/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-011	110-PbV-011	1st Floor Hall CT	02/19/16				

Report Amended. Corrected descriptions on samples 11 and 12 from 2nd Floor to 1st Floor per customer request.

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159783

Matrix Wipe
Received 02/24/16
Analyzed 02/24/16
Reported 03/04/16

Project Goodfellow 110
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date	Area	Total	Conc.	RL*
Parameter		Method					
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-012	110-PbV-012	1st Floor Stairwell Land	02/19/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-013	110-PbV-013	Bsmt Bay Land	02/23/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-014	110-PbV-014	Bsmt CC Step	02/23/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-015	110-PbV-015	Bsmt Pipe D10	02/23/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-016	110-PbV-016	Bsmt E Tunnel Floor	02/23/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-017	110-PbV-017	Bsmt Tank Rm Brick Stair	02/23/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2
159783-018	110-PbV-018	Bsmt Tunnel Entrance W	02/23/16				
Lead		EPA 7000B - Vacwipe / 3050B		0.108 ft2	939 µg/wipe	8730 µg/ft2	186 µg/ft2
159783-019	110-PbV-019	Blank	02/23/16				
Lead		EPA 7000B - Vacwipe / 3050B			<10.0 µg/wipe		10.0 µg/wipe

Analyst MHB
159783-03/04/16 02:27 PM

(b) (6)

Reviewed By **Alfreda Jones**
Project Manager

Report Amended. Corrected descriptions on samples 11 and 12 from 2nd Floor to 1st Floor per customer request.

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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 www.slabin.com e-mail: info@slabin.com

159783



VAL59\159783

Submitting Co. CCCU-TEC Inc.	Lab W/O#	Phone 616-230-8880
4181 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@cccutec.com
Kansas City, MO 64118	**State of Collection Missouri	**Cgt. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 110	Special instructions (include requests for special reporting or data packages)	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day† <input type="checkbox"/> 1 business day† <input type="checkbox"/> 2 business days† <input checked="" type="checkbox"/> 3 business days† <input type="checkbox"/> 6 business days† <small>* Not available for all tests A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi-pests & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0800) <input type="checkbox"/> Resp. Dust (NIOSH 0800) <input type="checkbox"/> Silica - FTIR (NIOSH 7802) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Other	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) to day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled	Time Sampled	Sample Identification (Employee, SSN, Bldg, Material, Type)	Wiped Area (ft²)	pH / Temp *	Time*		Flow Rate*		Total Air
						Start	Stop	Start	Stop	
110-P6V-001	2/18		2 nd Floor - CT - M12	100 ft²						
110-P6V-002			2 nd FL - D15 - Ceiling Tile							
110-P6V-003			2 nd FL - D9 - CT							
110-P6V-004			2 nd Floor - F2 - Carpet							
110-P6V-005			2 nd FL - F10 - CT							
110-P6V-006			2 nd FL - F10 - Carpet							
110-P6V-007	2/19		1 st FL - F12 - Floor							
110-P6V-008			1 st FL - G14 - Carpet							
110-P6V-009			1 st FL - C14 - CT							
110-P6V-010			1 st FL - D15 - Elev. Trcd							

*Type: A=Air B=Blank P=Personal E=Excursion †Beginning/End of Sample Period *Pump Calibration in Liters/Minute *Vol/Lume in Liters (Time in min * Flow in L/min)
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME _____ SIGNATURE _____ DATE / TIME _____	Relinquished to lab by NAME _____ SIGNATURE _____ DATE / TIME _____	2-24-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DS
---	---	--------------------	--

*Temperature taken with IR Gun A **Required Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.



SCHNEIDER LABORATORIES GLOBAL, INC.

WO Label

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-786-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

Submitting Co. OCCU-TEC Inc.	Lab WOH	Phone 616-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 616-994-2470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow 110	Special Instructions (include requests for special reporting or data packages)	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests</small> <small>A job received past 3PM † will begin its TAT the next business day</small> <small>Schedule rush organics, multi-metals & wastewater tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7802) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chaffield) <input type="checkbox"/>	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled	Time Sampled	Sample Identification (Employee, SSN, Bldg, Material, Type)	Wiped Area (ft²)	pH / Temp *	Time*		Flow Rate*		Total* Air
						Start	Stop	Start	Stop	
110-PbV-011	2/19		2nd Fl Hall - CT	110 ft²						
110-PbV-012	↓		2nd Fl Small Landing							
110-PbV-013	2/23		Basement - Bay Landing							
110-PbV-014			" - CC Strip							
110-PbV-015			" - Pipe @ D10							
110-PbV-016			" - External Floor							
110-PbV-017			" - Tank Rim - Brick Stair							
110-PbV-018	↓		" - Tunnel Entrance W.							
110-PbV-019	-		Blank							

*Type: A=Area B=Blank P=Personal E=Excursion *Beginning/End of Sample Period *Pump Calibration in Liters/Minute *Vol/L/min in Liters (time in min x flow in L/min)
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME _____ SIGNATURE _____ DATE / TIME _____	Relinquished to lab by NAME _____ SIGNATURE _____ DATE / TIME _____	Sample Disposal <input type="checkbox"/> Return to Sender (shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input type="checkbox"/> FR <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB Web 2213
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Sample return requested Ambient temp Ice Cl R S X Receiv
 * Temperature taken with IR Gun A. ** Required Chem-of-Custody documentation continued internally within lab. Terms and



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 29, 2016

Attention: Jay Hurst
Occu-Tec, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2246OCCA
Goodfellow 110 Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 24, 2016. These samples represent the TEM samples for the Goodfellow 110 Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the twelve (12) samples are summarized in Tables I & II. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow 110 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I001	110-AA-001	NSD	NA	1546.6	0.0038	BDL (0.0038)*	BDL (15.2)*
I002	110-AA-002	NSD	NA	1585.9	0.0037	BDL (0.0037)*	BDL (15.2)*
I003	110-AA-003	NSD	NA	1561.7	0.0037	BDL (0.0037)*	BDL (15.2)*
I004	110-AA-004	NSD	NA	1593.9	0.0037	BDL (0.0037)*	BDL (15.2)*
I005	110-AA-005	NSD	NA	1626.1	0.0036	BDL (0.0036)*	BDL (15.2)*
I006	110-AA-006	NSD	NA	1602	0.0037	BDL (0.0037)*	BDL (15.2)*
I007	110-AA-007	NSD	NA	1585.9	0.0037	BDL (0.0037)*	BDL (15.2)*
I008	110-AA-008	NSD	NA	1569.8	0.0037	BDL (0.0037)*	BDL (15.2)*
I009	110-AA-009	NSD	NA	1550.3	0.0038	BDL (0.0038)*	BDL (15.2)*
I010	110-AA-010	NSD	NA	1650.3	0.0035	BDL (0.0035)*	BDL (15.2)*

Filter Type: MCE
 Filter diameter: 25mm
 Effective filter Area: 385mm²
 Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
 Grid Openings Analyzed Per Sample: 7
 Area Analyzed Per Sample: 0.0658mm²
 Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
 NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
 SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
 s/mm² - asbestos structures per square millimeter
 s/cc = asbestos structures per cubic centimeter
 * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
 The analysis was performed according to the TEM Method (40CFR part 763).
 This laboratory is in compliance with the specified method.
 Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date:

2/29/16

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow 110 Project - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I011	110-AA-011	NSD	NA	1626.1	0.0036	BDL (0.0036)*	BDL (15.2)*
I012	110-AA-012	NSD	NA	1618.1	0.0036	BDL (0.0036)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date:

2/29/16



McCall and Spero
Environmental, Inc.
 Specialists in Microanalysis

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E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC. Telephone #: 816-231-5580 Fax #: 816-994-3470
 Contact: Jay Hurst Client Project Number: 916029
 Relinquished by: _____ Date: _____ Time: _____
 Written Report To: jayhurst@occutec.com ; jsmith@occutec.com
 Project Name: Goodfellow 110
 Turn-Around Time: (Circle One) 4 Hour | 6-8 Hour(same day) | 24 Hour | 2-3 Day | 4-5 Day | Weekend Rush | After Hour Rush

MSE Project #: MSE-7746DCCA Comments: contact
 Samples Received by: (b) (6) Date: 2/24/16 Time: 1000
 Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763
 Samples Prepared By: (b) (6) Method: Burdett & Rood
 Samples Analyzed By: _____ Date: 2/26/16

Client ID Number	Sample Location / Type (D)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
110-AA-001	2nd Floor - L-12	0859	1211	192	8.05	1546.6
110-AA-002	2nd Floor - N-15	0907	1224	197	8.05	1585.9
110-AA-003	2nd Floor - G-14	0915	1224	194	8.05	1561.7
110-AA-004	2nd Floor - D-15	0925	1243	198	8.05	1593.9
110-AA-005	2nd Floor - E11	0932	1254	202	8.05	1626.1
110-AA-006	2nd Floor - D8	0941	1300	199	8.05	1602
110-AA-007	2nd Floor - E5	0951	1308	197	8.05	1585.9
110-AA-008	2nd Floor - E2	0959	1314	195	8.05	1569.8
110-AA-009	2nd Floor - H3	1008	1333	205	8.05	1650.3
110-AA-010	2nd Floor - L3	1016	1341	205	8.05	1650.3
110-AA-011	2nd Floor - F5	1028	1350	202	8.05	1626.1
110-AA-012	2nd Floor - F8	1035	1356	201	8.05	1618.1
110-AA-013	1st Floor - L12	727	1027	180	8.05	1449
110-AA-014	1st Floor - M15	734	1031	176	8.05	1416.8
110-AA-015	1st Floor - F15	742	1034	172	8.05	1384.6

Results Transmitted/Date: _____ Fax/Phone By: _____



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E-mail: customerservice@mse-labs.com • Website: www.mselabs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC.	Telephone #: 816-231-5580	Fax #: 816-994-3470
Contact: Jay Hurst	Client Project Number: 916029	
Relinquished by: _____	Date: _____	Time: _____
Written Report To: jayhurst@occutec.com ; jsmith@occutec.com		
Project Name: Goodfellow 110		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour <u>2-6 Day</u> 4-5 Day Weekend Rush After Hour Rush		

MSE Project #: MSE- 22460CCA Comments: Infact

Samples Received by: (b) (6) Date: 2/24/16 Time: 1006

Sample To Be Analyzed by: TEM AHERA / EPA 40CFR Part 763

Samples Prepared By: (b) (6) Method: Burdett & Rood

Samples Analyzed By: _____ Date: 2/26/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
110-AA-016	1 st Floor - D13	750	1044	174	8.05	1400.7
110-AA-017	1 st Floor - B14	758	1048	170	8.05	1368.5
110-AA-018	1 st Floor - D10	805	1052	167	8.05	1344.4
110-AA-019	1 st Floor - F10	815	1108	173	8.05	1392.7
110-AA-020	1 st Floor - B16	831	1126	175	8.05	1332.6
110-AA-021	1 st Floor - E7	842	1146	184	8.05	1481.2
110-AA-022	1 st Floor - C4	911	1153	162	8.05	1307.1
110-AA-023	1 st Floor - D3	906	1155	170	8.05	1368.5
110-AA-024	1 st Floor - J3	913	1159	166	8.05	1336.3
110-AA-025	Basement - A15	1034	1324	170	8.03	1365.1
110-AA-027	Basement - D14	1038	1330	172	8.03	1381.2
110-AA-028	Basement - D10	1041	1336	175	8.03	1405.3
110-AA-029	Basement - A11	1040	1334	174	8.03	1397.2
110-AA-030	Basement - 610 <u>6-10</u>	1042	1346	184	8.03	1477.5
110-AA-036	Blank	-	-	-	-	-

Results Transmitted/Date: _____ Fax/Phone By: _____



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E-mail: customerservice@mnelabs.com • Website: www.mnelabs.com

Date: February 29, 2016

Attention: Jay Hurst
Occu-Tec, Inc.

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2246OCCA.3
Goodfellow 110 Project Continued
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 24, 2016. These samples represent the TEM samples for the Goodfellow 110 Project Continued - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the twelve (12) samples and one (1) blank are summarized in Tables I, II & III. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow 110 Project Continued - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm²)
I013	110-AA-013	NSD	NA	1449	0.0040	BDL (0.0040)*	BDL (15.2)*
I014	110-AA-014	NSD	NA	1416.8	0.0041	BDL (0.0041)*	BDL (15.2)*
I015	110-AA-015	NSD	NA	1384.6	0.0042	BDL (0.0042)*	BDL (15.2)*
I016	110-AA-016	NSD	NA	1400.7	0.0042	BDL (0.0042)*	BDL (15.2)*
I017	110-AA-017	NSD	NA	1368.5	0.0043	BDL (0.0043)*	BDL (15.2)*
I018	110-AA-018	NSD	NA	1344.4	0.0044	BDL (0.0044)*	BDL (15.2)*
I019	110-AA-019	NSD	NA	1392.7	0.0042	BDL (0.0042)*	BDL (15.2)*
I020	110-AA-020	NSD	NA	1332.6	0.0044	BDL (0.0044)*	BDL (15.2)*
I021	110-AA-021	NSD	NA	1481.2	0.0040	BDL (0.0040)*	BDL (15.2)*
I022	110-AA-022	NSD	NA	1304.1	0.0045	BDL (0.0045)*	BDL (15.2)*

Filter Type: MCE
 Filter diameter: 25mm
 Effective filter Area: 385mm²
 Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
 Grid Openings Analyzed Per Sample: 7
 Area Analyzed Per Sample: 0.0658mm²
 Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
 NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
 SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
 s/mm² - asbestos structures per square millimeter
 s/cc = asbestos structures per cubic centimeter
 * Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
 The analysis was performed according to the TEM Method (40CFR part 763).
 This laboratory is in compliance with the specified method.
 Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director: (b) (6) Date: 2/29/14

SUMMARY OF AHERA TEM RESULTS

TABLE II

Inside Samples

Project Name: Goodfellow 110 Project Continued - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I023	110-AA-023	NSD	NA	1368.5	0.0043	BDL (0.0043)*	BDL (15.2)*
I024	110-AA-024	NSD	NA	1336.3	0.0044	BDL (0.0044)*	BDL (15.2)*
I025	110-AA-025	2	CH	1365.1	0.0043	0.0086	30.4
I027	110-AA-027	NSD	NA	1381.2	0.0042	BDL (0.0042)*	BDL (15.2)*
I028	110-AA-028	1	CH	1405.3	0.0042	0.0042	15.2
I029	110-AA-029	NSD	NA	1397.2	0.0042	BDL (0.0042)*	BDL (15.2)*
I030	110-AA-030	2	CH	1477.5	0.0040	0.0079	30.4

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:
The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director: _____

Date: 2/29/16

SUMMARY OF AHERA TEM RESULTS

TABLE III

Blank Samples

Project Name: Goodfellow 110 Project Continued - OCC# 916029

McCall and Spero Project No: MSE-2246OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
BL36	110-AA-036	NSD	NA	NA	NA	NA	BDL (10.6)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:
F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 2/24/16



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: <u>OCCU-TEC INC.</u>	Telephone #: <u>816-231-5580</u>	Fax #: <u>816-994-3470</u>
Contact: <u>Jay Hurst</u>	Client Project Number: <u>916029</u>	
Relinquished by: _____	Date: _____	Time: _____
Written Report To: <u>jayhurst@occutec.com ; jsmith@occutec.com</u>		
Project Name: <u>Goodfellow 110</u>		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour <u>2-3 Day</u> 4-5 Day Weekend Rush After Hour Rush		

For Laboratory Use Only

MSE Project #: MSE- 27460CCA.3 Comments: Intact

Samples Received by: (b) (6) Date: 2-24-16 Time: 1000 AM

Sample To Be Analyzed by: TEM AHERA / EPA 40 CFR Part 763

Samples Prepared By: (b) (6) Method: Burdett & Rood

Samples Analyzed By: _____ Date: 2/25/16

Client ID Number	Sample Location / Type (D)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
110-AA-001	2nd Floor - L-12	0859	1211	192	8.05	1546.6
110-AA-002	2nd Floor - N-15	0907	1224	197	8.05	1585.9
110-AA-003	2nd Floor - G-14	0915	1229	194	8.05	1561.7
110-AA-004	2nd Floor - D-15	0925	1243	198	8.05	1593.9
110-AA-005	2nd Floor - E-11	0932	1254	202	8.05	1626.1
110-AA-006	2nd Floor - D8	0941	1300	199	8.05	1602
110-AA-007	2nd Floor - E5	0951	1308	197	8.05	1585.9
110-AA-008	2nd Floor - E2	0959	1314	195	8.05	1569.8
110-AA-009	2nd Floor - H3	1008	1333	205	8.05	1650.3
110-AA-010	2nd Floor - L3	1016	1341	205	8.05	1650.3
110-AA-011	2nd Floor - F5	1028	1350	202	8.05	1626.1
110-AA-012	2nd Floor - F8	1035	1356	201	8.05	1618.1
110-AA-013	1st Floor - L12	727	1027	180	8.05	1449
110-AA-014	1st Floor - M15	734	1031	176	8.05	1416.8
110-AA-015	1st Floor - F15	742	1034	172	8.05	1384.6

Results Transmitted/Date: _____ Fax/Phone By: _____



**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

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Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC. Telephone #: 816-231-5580 Fax #: 816-994-3470
 Contact: Jay Hurst Client Project Number: 916029
 Relinquished by: _____ Date: _____ Time: _____
 Written Report To: jayhurst@occutec.com ; jsmith@occutec.com
 Project Name: Goodfellow 110
 Turn-Around Time: (Circle One) 4 Hour | 6-8 Hour(same day) | 24 Hour | 2-3 Day | 4-5 Day | Weekend Rush | After Hour Rush

For Laboratory Use Only

MSE Project #: MSE- 72460CCA-3 Comments: Intact
 Samples Received by: (b) (6) Date: 2-24-16 Time: 1000 AM
 Sample To Be Analyzed by: TEM AHERA / EPA 40 CFR Part 763
 Samples Prepared By: (b) (6) Method: Burdett & Rood
 Samples Analyzed By: _____ Date: 2/25/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
110-AA-016	1 st Floor - D13	750	1044	174	8.05	1400.7
110-AA-017	1 st Floor - B14	758	1048	170	8.05	1368.5
110-AA-018	1 st Floor - D10	805	1052	167	8.05	1344.4
110-AA-019	1 st Floor - F10	815	1108	173	8.05	1392.7
110-AA-020	1 st Floor - B16	831	1126	175	8.05	1332.6
110-AA-021	1 st Floor - E7	842	1146	184	8.05	1481.2
110-AA-022	1 st Floor - C4	911	1153	162	8.05	1307.1
110-AA-023	1 st Floor - D3	906	1155	170	8.05	1368.5
110-AA-024	1 st Floor - J3	913	1159	166	8.05	1336.3
110-AA-025	Basement - A15	1034	1324	170	8.03	1365.1
110-AA-027	Basement - D14	1038	1330	172	8.03	1381.2
110-AA-028	Basement - D10	1041	1336	175	8.03	1405.3
110-AA-029	Basement - A11	1040	1334	174	8.03	1397.2
110-AA-030	Basement - G10 ^{K11} G-10	1042	1346	184	8.03	1477.5
110-AA-036	Blank	-	-	-	-	-

Results Transmitted/Date: _____ Fax/Phone By: _____

BUILDING 115

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 115				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
115-AA-001	1st Floor Office Area	<15.2	s/mm ²	70 s/mm ²
115-AA-002	1st Floor Open Exercise South Center	<15.2	s/mm ²	70 s/mm ²
115-AA-003	1st Floor Education Classroom South Center	<15.2	s/mm ²	70 s/mm ²
115-AA-004	1st Floor Aerobics South East	<15.2	s/mm ²	70 s/mm ²
115-AA-005	Basement North	<15.2	s/mm ²	70 s/mm ²
115-AA-006	Basement East	<15.2	s/mm ²	70 s/mm ²
115-AA-007	Basement South	<15.2	s/mm ²	70 s/mm ²
115-AA-008	Basement West Tunnel	<15.2	s/mm ²	70 s/mm ²
115-AA-009	Blank	<15.2	s/mm ²	70 s/mm ²
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
115-PbA-001	1st Floor Office Area	<3.03	µg/m ³	30 µg/m ³
115-PbA-002	1st Floor Open Exercise South Center	<3.00	µg/m ³	30 µg/m ³
115-PbA-003	1st Floor Education Classroom South Center	<3.01	µg/m ³	30 µg/m ³
115-PbA-004	1st Floor Aerobics South East	<2.98	µg/m ³	30 µg/m ³
115-PbA-005	Basement North	<3.24	µg/m ³	30 µg/m ³
115-PbA-006	Basement East	<3.28	µg/m ³	30 µg/m ³
115-PbA-007	Basement South	<3.28	µg/m ³	30 µg/m ³
115-PbA-008	Basement West Tunnel	<3.30	µg/m ³	30 µg/m ³
115-PbA-009	Blank	<2.00	µg	30 µg/m ³

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

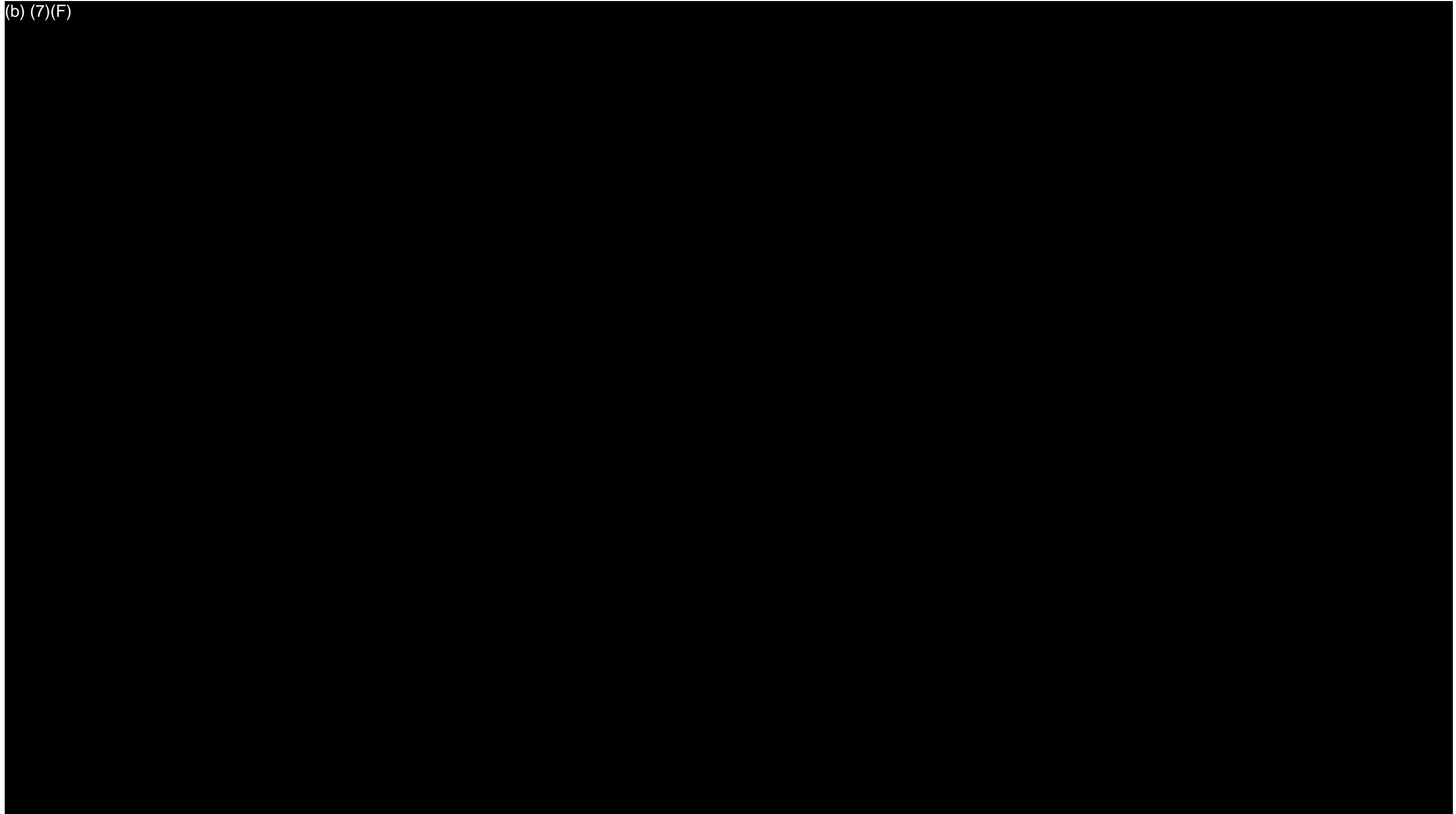
µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 115				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
115-PbW-001	1st Floor Exercise Room North East Window Sill	<10	µg/ft ²	200 µg/ft ²
115-PbW-002	1st Floor Custodial Closet Tile Floor	37.8	µg/ft ²	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
115-PbV-001	1st Floor East Carpet Floor	<92.9	µg/ft ²	200 µg/ft ²
115-PbV-002	1st Floor Weight Room Carpet Floor	<92.9	µg/ft ²	200 µg/ft ²
115-PbV-003	Basement Floor By Stairs	<92.9	µg/ft ²	200 µg/ft ²
115-PbV-004	Basement Floor by Tunnel	<92.9	µg/ft ²	200 µg/ft ²
115-PbV-005	Basement Tunnel Floor	424	µg/ft ²	200 µg/ft ²
115-PbV-006	Blank	<10	µg	200 µg/ft ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

(b) (7)(F)



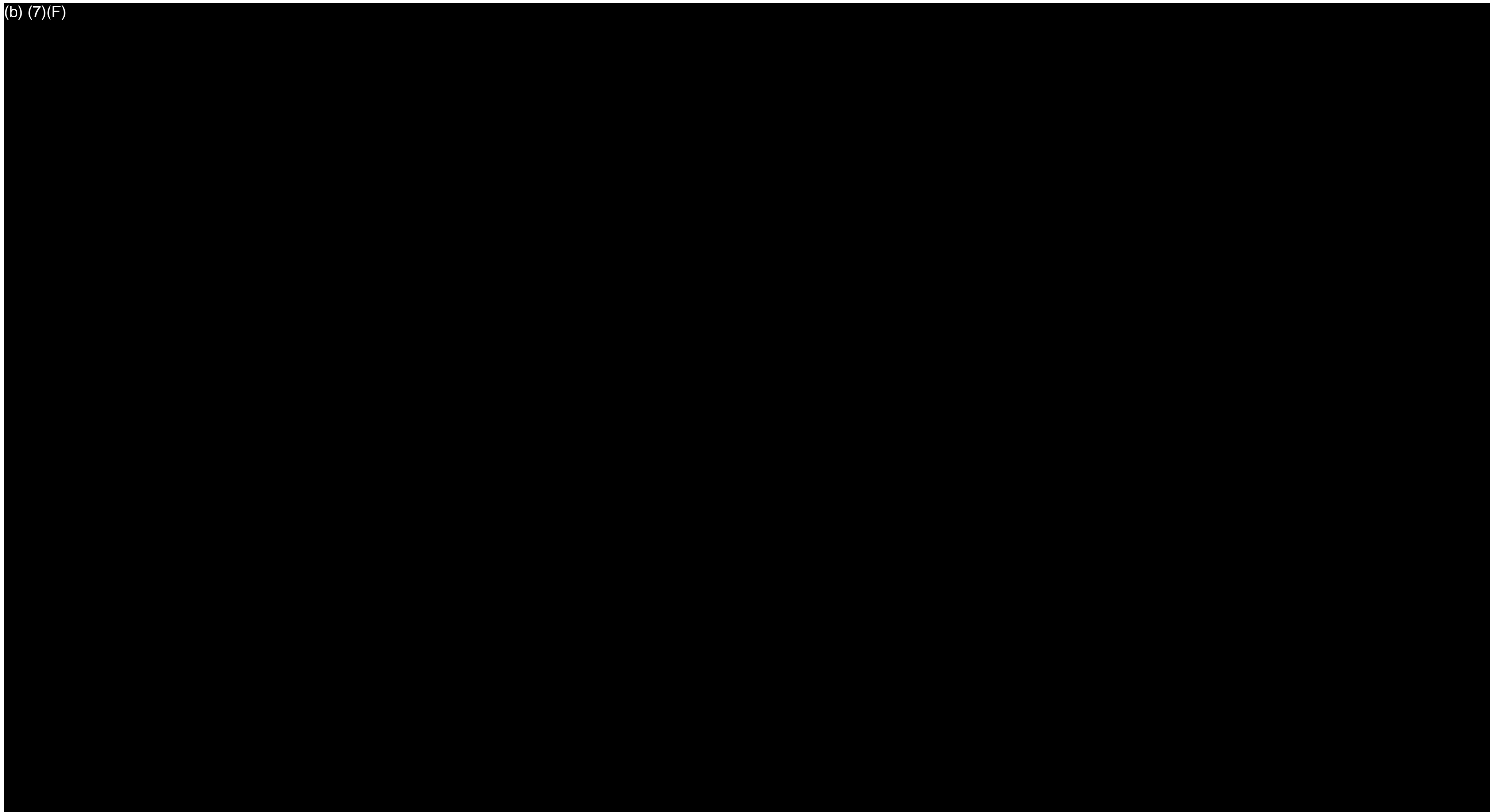
SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0617 (115) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE: 916029	NTS

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0617 (115) - 1st FLOOR	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE:	NTS
	916029	



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159638
-----------------	--------

Matrix Wipe
Received 02/23/16
Analyzed 02/23/16
Reported 02/24/16

Project Goodfellow-Bldg 115 Fitness
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date			
Parameter	Method	Area	Total	Conc.	RL*	
159638-001	115-PbV-001	1st Fl E Carpet Fl	02/18/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159638-002	115-PbV-002	1st Fl Weight Rm S	02/18/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159638-003	115-PbV-003	Bsmt Fl By Stairs	02/18/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159638-004	115-PbV-004	Bsmt Fl By Tunnel	02/18/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159638-005	115-PbV-005	Bsmt Fl In Tunnel	02/18/16			
Lead	EPA 7000B - Vacwipe / 3050B	0.108 ft2	45.6 µg/wipe	424 µg/ft2	92.9 µg/ft2	
159638-006	115-PbV-006	Blank	02/18/16			
Lead	EPA 7000B - Vacwipe / 3050B		<10.0 µg/wipe		10.0 µg/wipe	

Analyst IH
159638-02/24/16 09:29 AM

(b) (6)

Reviewed By **Abisola Kasali**
Metals Supervisor

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabin.com e-mail: info@slabin.com

159638



V:159\159638

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - Bldg 115 Fitness Ctr.	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests A job received past 3PM † will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time*		Flow Rate*		Total ⁴ Air
						Start	Stop	Start	Stop	
115-PbV-001	2-18-16	1900	1st Fl - Carpet Floor ^{East}	100cm ²						
-002			1st Fl - Weight Room South	100cm ²						
-003			Bsmnt - Floor by stairs	100cm ²						
-004			Bsmnt - Floor by tunnel	100cm ²						
-005			Bsmnt - Floor in tunnel	100cm ²						
-006			Blank	X						

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by Jeff Smith SIGNATURE (b) (6) DATE / TIME 2-18-16	Relinquished to lab by Jeff Smith SIGNATURE (b) (6) DATE / TIME 2-21-16	2-23-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2084
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Ter



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159036

Matrix: Air
Received: 02/17/16
Analyzed: 02/17/16
Reported: 02/18/16

Attn:
Project: Goodfellow Bldg 115
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume	
Parameter		Method		Total	RL*	Conc.	8 Hr TWA
159036-001	115-PbA-001	1st Floor Office Area	02/11/16	182 min	3.63 L/min	661 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.03 µg/m3	<1.15 µg/m3
159036-002	115-PbA-002	1st Floor Open Exercise	02/11/16	184 min	3.63 L/min	668 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.00 µg/m3	<1.15 µg/m3
159036-003	115-PbA-003	1st Floor Education	02/11/16	183 min	3.63 L/min	664 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.01 µg/m3	<1.15 µg/m3
159036-004	115-PbA-004	1st Floor Aerobics	02/11/16	185 min	3.63 L/min	672 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<2.98 µg/m3	<1.15 µg/m3
159036-005	115-PbA-005	Basement North	02/11/16	170 min	3.63 L/min	617 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.24 µg/m3	<1.15 µg/m3
159036-006	115-PbA-006	Basement East	02/11/16	168 min	3.63 L/min	610 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.28 µg/m3	<1.15 µg/m3
159036-007	115-PbA-007	Basement South	02/11/16	168 min	3.63 L/min	610 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.28 µg/m3	<1.15 µg/m3
159036-008	115-PbA-008	Basement West	02/11/16	167 min	3.63 L/min	606 L	
Lead		NIOSH 7082M		<2.00 µg	2.00 µg	<3.30 µg/m3	<1.15 µg/m3
159036-011	115-PbA-009	Blank	02/11/16				
Lead		NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: IH
159036-02/18/16 12:22 PM

(b) (6)

Reviewed By: **Abisola Kasali**
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159036
-----------------	--------

Matrix Wipe
Received 02/17/16
Analyzed 02/17/16
Reported 02/18/16

Project Goodfellow Bldg 115
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date				
Parameter		Method	Area	Total	Conc.	RL*	
159036-009	115-PbW-001	Exercise Room Window Sill	02/11/16				
Lead		EPA 7000B / 3050B	1.00 ft2	<10.0 µg/wipe	<10.0 µg/ft2	10.0 µg/ft2	
159036-010	115-PbW-002	Custodial Closet Floor	02/11/16				
Lead		EPA 7000B / 3050B	1.00 ft2	37.8 µg/wipe	37.8 µg/ft2	10.0 µg/ft2	

Analyst IH
159036-02/18/16 08:35 AM

(b) (6)

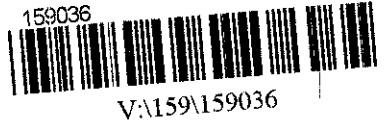
Reviewed By **Abisola Kasali**
Metals Supervisor

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

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 www.slabin.com e-mail: info@slabin.com



Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Bldg. 115	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type')	Wiped Area (ft²)	pH / Temp *	Time²		Flow Rate³		Total⁴ Air
						Start	Stop	Start	Stop	
115-PbA-001	2/11/16	07:43	1 st FLOOR OFFICE AREA	—		07:43	10:45	3.63	3.63	660.66
115-PbA-002		07:43	1 st FLOOR - Open EXERCISE	—		07:43	10:47	3.63	3.63	667.92
115-PbA-003		07:45	1 st FLOOR - Education	—		07:45	10:48	3.63	3.63	664.29
115-PbA-004		07:45	1 st FLOOR - Aerobics	—		07:45	10:50	3.63	3.63	671.55
115-PbA-005		08:13	BASEMENT - NORTH	—		08:13	11:03	3.63	3.63	617.10
115-PbA-006		08:15	BASEMENT - EAST	—		08:15	11:03	3.63	3.63	609.84
115-PbA-007		08:15	BASEMENT - South	—		08:15	11:03	3.63	3.63	561.12
115-PbA-008		08:16	BASEMENT - West	—		08:16	11:03	3.63	3.63	606.21
115-PbW-001	2/11/16	08:32	EXERCISE ROOM - Window Sill	1 ft²		—	—	—	—	—
115-PbW-002	2/11/16	08:36	CUSTODIAL Closet - Floor	1 ft²		—	—	—	—	—

*Type: A=Area B=Blank P=Personal E=Excursion †Beginning/End of Sample Period ‡Pump Calibration in Liters/Minute ³Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by JAY HURST SIGNATURE (b) (6) DATE / TIME 2/11/2016	Relinquished to lab by Jay Hurst SIGNATURE (b) (6) DATE / TIME 2/15/16 5:00pm	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input checked="" type="checkbox"/> Disposal by lab <small>(\$50 fee for excessive weight)</small> Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2075
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* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.



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WO Label

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 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabin.com e-mail: info@slabin.com

Submitting Co. OCUC-TEC Inc.		Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275		Acct # 3505	Fax / Email 816-994-3470 / jayhurst@ocucotec.com
Kansas City, MO 64116		**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - Bldg 115	Special Instructions [include requests for special reporting or data packages]		
Project Location: St. Louis, MO			
Project Number: 916029			
PO Number:			

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other: <input type="checkbox"/>	Asbestos in Bulk: <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam <input type="checkbox"/>

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
115-P6A-009			Blank							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by JAY HURST SIGNATURE (b) (6) DATE / TIME 2/11/16	Relinquished to lab by JAY HURST SIGNATURE (b) (6) DATE / TIME 2/15/16 5:00PM	2-17-16 (b) (6)	Sample Disposal <input type="checkbox"/> Return to Sender (Shipping fees) <input checked="" type="checkbox"/> Disposal by lab (\$50 fee for excessive weight) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: 2095
<input type="checkbox"/> Sample return requested <input type="checkbox"/> Ambient temp <input type="checkbox"/> Ice <input type="checkbox"/> Cl <input type="checkbox"/> R <input type="checkbox"/> S <input checked="" type="checkbox"/> FX <input checked="" type="checkbox"/> Receive		* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and cond	



**McCall and Spero
Environmental, Inc.**

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 22, 2016

Attention: Jay Hurst
OCCU-TEC

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2176OCCA.3
Goodfellow - Bldg 115 Fitness Center Project
OCC#916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 17, 2016. These samples represent the TEM samples for the Goodfellow - Bldg 115 Fitness Center Project - OCC#916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eight (8) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Dear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow - Bldg 115 Fitness Center Project - OCC#916029

McCall and Spero Project No: MSE-2176OCCA.3

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (1)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	115-AA-001	NSD	NA	1424.85	0.0041	BDL (0.0041)*	BDL (15.2)*
I02	115-AA-002	NSD	NA	1432.90	0.0041	BDL (0.0041)*	BDL (15.2)*
I03	115-AA-003	NSD	NA	1440.95	0.0041	BDL (0.0041)*	BDL (15.2)*
I04	115-AA-004	NSD	NA	1449.00	0.0040	BDL (0.0040)*	BDL (15.2)*
I05	115-AA-005	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*
I06	115-AA-006	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*
I07	115-AA-007	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*
I08	115-AA-008	NSD	NA	1344.35	0.0044	BDL (0.0044)*	BDL (15.2)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 7
Area Analyzed Per Sample: 0.0658mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:

The Laboratory is not responsible for data collected by personnel who are not part of the laboratory. Results reported in both structures /cm³ and structures/mm² are dependent on the volume of air sampled and measured by non-laboratory personnel and are not covered by the laboratory's NVLAP accreditation.

F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.

The analysis was performed according to the TEM Method (40CFR part 763).

This laboratory is in compliance with the specified method.

Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

TEM Laboratory Director: (b) (6)

Date: 2/22/16



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: OCCU-TEC INC.	Telephone #: 816-231-5580	Fax #: 816-994-3470
Contact: Jay Hurst	Client Project Number: 916029	
Relinquished by: (b) (6)	Date: 2/15/16	Time: 5:00pm
Written Report To: jayhurst@occutec.com ; jsmith@occutec.com		
Project Name: Goodfellow - Bldg 115 Fitness Center		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour(same day) 24 Hour 2-3 Day <u>4-5 Day</u> Weekend Rush After Hour Rush		

~~For Laboratory Use Only~~

MSE Project #: MSE-21760CCA.3 Comments: Intact ^{3 Day TAT}

Samples Received by: (b) (6) Date: 02/17/16 Time: 10:00 AM

Sample To Be Analyzed by: TEM AHERA / EPA 40 CFR Part 763

Samples Prepared By: (b) (6) Method: Burdett & Rood

Samples Analyzed By: Date: 2/17/16

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
115-AA-001	1st Floor - Office Area	748	1045	177	8.05	1424.85
-002	1st Fl - Open Exercise	749	1047	178	8.05	1432.9
-003	1st Fl - Education	749	1048	179	8.05	1440.95
-004	1st Fl - Aerobics	750	1050	180	8.05	1449
-005	Bsmnt - North	816	1103	167	8.05	1344.35
-006	Bsmnt - East	816	1103	167	8.05	1344.35
-007	Bsmnt - South	816	1103	167	8.05	1344.35
-008	Bsmnt - West Tunnel	816	1103	167	8.05	1344.35
-009	Blank					

Results Transmitted/Date: _____ Fax/Phone By: _____

BUILDING 122B

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 122B				
Asbestos TEM Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
122B-AA-001	1st Floor Column B-03	<17.7	s/mm ²	70 s/mm ²
122B-AA-002	1st Floor Column E-03	<17.7	s/mm ²	70 s/mm ²
122B-AA-003	1st Floor Column D-02	<17.7	s/mm ²	70 s/mm ²
122B-AA-004	1st Floor Column B-02	<17.7	s/mm ²	70 s/mm ²
122B-AA-005	Basement Column B-02	<17.7	s/mm ²	70 s/mm ²
122B-AA-006	Basement Column B-03	<17.7	s/mm ²	70 s/mm ²
122B-AA-007	Basement Column C-02	<17.7	s/mm ²	70 s/mm ²
122B-AA-008	Basement Column C-01	<17.7	s/mm ²	70 s/mm ²
122B-AA-009	Blank	<17.7	s/mm ²	70 s/mm ²
Lead Air Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
122B-PbA-001	1st Floor Column B-03	<3.03	µg/m ³	30 µg/m ³
122B-PbA-002	1st Floor Column H-03	<3.29	µg/m ³	30 µg/m ³
122B-PbA-003	1st Floor Column D-01	<3.03	µg/m ³	30 µg/m ³
122B-PbA-004	1st Floor Column B-02	<3.03	µg/m ³	30 µg/m ³
122B-PbA-005	Basement Column A-03	<3.15	µg/m ³	30 µg/m ³
122B-PbA-006	Basement Column B-01	<3.15	µg/m ³	30 µg/m ³
122B-PbA-007	Basement Column C-03	<3.15	µg/m ³	30 µg/m ³
122B-PbA-008	Basement Column D-01	<3.17	µg/m ³	30 µg/m ³
122B-PbA-009	Blank	<2.00	µg	30 µg/m ³

s/mm² = structures per square millimeter

µg/m³ = micrograms per cubic meter

µg/ft² = micrograms per square foot

Goodfellow Federal Center Airborne Asbestos and Lead and Lead Surface Dust Investigation
 4300 Goodfellow Boulevard
 St. Louis , Missouri 63120

BUILDING 122B				
Lead Surface Dust Wipe Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
122B-PbW-001	1st Floor - Column A.5 2 - Top of Duct	831	µg/ft ²	200 µg/ft ²
122B-PbW-002	1st Floor - Column E 1.5 Shop Table	52.7	µg/ft ²	200 µg/ft ²
Lead Surface Dust Micro-vac Samples				
Sample #	Location	Result	Unit of Measure	GSA Selected Target Level
122B-PbV-001	1st Floor - Column A.5 2.5 - Top of Light Fixture	<92.9	µg/ft ²	200 µg/ft ²
122B-PbV-002	1st Floor - Column C.5 2.5 - Office Top of Ceiling Tile	93.3	µg/ft ²	200 µg/ft ²
122B-PbV-003	1st Floor - Column B 1.5 - Book Shelf	<92.9	µg/ft ²	200 µg/ft ²

s/mm² = structures per square millimeter
 µg/m³ = micrograms per cubic meter
 µg/ft² = micrograms per square foot

(b) (7)(F)



SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE: GOODFELLOW MO0620 (122B) - Basement	DRAWN by: JWH	
CLIENT NAME: GENERAL SERVICES ADMINISTRATION	SUB. DATE: 03/04/16	
PROJECT NAME: GOODFELLOW GS-P-16-16-GZ7025	SCALE:	NTS
	916029	

(b) (7)(F)

SAMPLE LEGEND

- ▲ = SAMPLE LOCATION
- AA = ASBESTOS AIR SAMPLE
- PbA = LEAD AIR SAMPLE
- PbW = LEAD WIPE SAMPLE
- PbV = LEAD MICRO-VAC SAMPLE



TITLE:
GOODFELLOW MO0620 (122B) - 1st FLOOR

CLIENT NAME:
GENERAL SERVICES ADMINISTRATION

PROJECT NAME:
GOODFELLOW GS-P-16-16-GZ7025

DRAWN by: JWH

SUB. DATE: 03/04/16

SCALE: NTS

916029



Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer OCCU-TEC, INC. (3505)
Address 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #:	159646
-----------------	--------

Matrix Wipe
Received 02/23/16
Analyzed 02/23/16
Reported 02/23/16

Project Goodfellow Federal Center-122B
Location St Louis, MO
Number 916029

Sample ID	Cust. Sample ID	Location	Sample Date				
Parameter		Method	Area	Total	Conc.	RL*	
159646-001	122B-PbW-001	1st Fl Office Top Of Duct	02/16/16				
Lead		EPA 7000B / 3050B	1.00 ft2	831 µg/wipe	831 µg/ft2	20.0 µg/ft2	
159646-002	122B-PbW-002	1st Fl Shop Table	02/16/16				
Lead		EPA 7000B / 3050B	1.00 ft2	52.7 µg/wipe	52.7 µg/ft2	10.0 µg/ft2	
159646-003	122B-PbV-001	1st Fl Above Ceiling	02/16/16				
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	
159646-004	122B-PbV-002	1st Fl Ceiling Tile	02/16/16				
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	10.0 µg/wipe	93.3 µg/ft2	92.9 µg/ft2	
159646-005	122B-PbV-003	1st Fl Book Shelf	02/16/16				
Lead		EPA 7000B - Vacwipe / 3050B	0.108 ft2	<10.0 µg/wipe	<92.9 µg/ft2	92.9 µg/ft2	

Analyst OHE
159646-02/23/16 08:04 PM

(b) (6)

Reviewed By **Sultan Al-Johani**
Metals Team Leader

Minimum Total Reporting Limit: 10.0 µg/wipe. EPA Clearance Std: 40 µg/ft² for floors, 250 µg/ft² for interior window sills, and 400 µg/ft² for window troughs. All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and *Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. The test results reported relate only to the samples submitted.



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www.slabinc.com e-mail: info@slabinc.com

159646



V:\159\159646

Submitting Co. OCU-TEC, Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow Federal Center - 122 B	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business day* <input checked="" type="checkbox"/> 3 business days* <input type="checkbox"/> 5 business days* <input type="checkbox"/> Full TCLP (10d) <input type="checkbox"/> Weekend* <small>* not available for all tests</small> <small>Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil <input type="checkbox"/>	Asbestos Air / Fiber Counts <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) <input type="checkbox"/> Mold Direct Exam	Asbestos Bulk / Asb ID <input type="checkbox"/> PLM (EPA 600/R-93/116) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP 198.1/1.4/6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chatfield)	Metals-Total Conc. <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <input type="checkbox"/> _____ Metals-Extract <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) Others <input type="checkbox"/>

Sample #	Date Sampled	Time Sampled	Sample Identification (Employee, SSN, Bldg, Material, Type ¹)	Wiped Area (ft ²)	pH / Temp *	Time ²		Flow Rate ³		Total ⁴ Air
						Start	Stop	Start	Stop	
122B-PbW-001	2-16-16	1330	1st Fl Office - Top of Duct	1 SF						
-002			1st Fl Shop Table	1 SF						
122B-PbV-001			1st Fl Above Ceiling	100cm ²						
-002			1st Fl Ceiling Tile	100cm ²						
-003			1st Fl Book Shelf	100cm ²						

¹Type: A=area B=blank P=personal E=excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min * flow in L/min]

Sampled by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-16-16 1330</u>	Relinquished to lab by NAME <u>Jeff Smith</u> SIGNATURE <u>(b) (6)</u> DATE/TIME <u>2-21-16 1800</u>	Sample Disposal <small>If samples over req. weight (Refer to Fee Schedule)</small> <input type="checkbox"/> Return to Sender (Shipping fees) <input type="checkbox"/> Disposal by lab (\$50 fee) Shipping Methods <input checked="" type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2284</u>
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* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Te



Customer: OCCU-TEC, INC. (3505)
Address: 4151 N. Mulberry D., Ste 275
Kansas City, MO 64116

Order #: 159037

Matrix: Air
Received: 02/17/16
Analyzed: 02/17/16
Reported: 02/18/16

Attn:
Project: Goodfellow Bldg 122B
Location: St Louis, MO
Number: 916029

PO Number:

Sample ID	Cust. ID	Location	Date	Time	Flow	Volume
Parameter	Method		Total	RL*	Conc.	8 Hr TWA
159037-001	122B-PbA-001	1 FL Near Column B3	02/11/16	182 min	3.63 L/min	661 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.03 µg/m3	<1.15 µg/m3
159037-002	122B-PbA-002	1 FL Near Column H3	02/11/16	182 min	3.34 L/min	608 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.29 µg/m3	<1.25 µg/m3
159037-003	122B-PbA-003	1 FL Near Column D1	02/11/16	182 min	3.63 L/min	661 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.03 µg/m3	<1.15 µg/m3
159037-004	122B-PbA-004	1 FL Near Column B2	02/11/16	182 min	3.63 L/min	661 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.03 µg/m3	<1.15 µg/m3
159037-005	122B-PbA-005	Basement Near A3	02/11/16	175 min	3.63 L/min	635 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.15 µg/m3	<1.15 µg/m3
159037-006	122B-PbA-006	Basement Near B1	02/11/16	175 min	3.63 L/min	635 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.15 µg/m3	<1.15 µg/m3
159037-007	122B-PbA-007	Basement Near C3	02/11/16	175 min	3.63 L/min	635 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.15 µg/m3	<1.15 µg/m3
159037-008	122B-PbA-008	Basement Near D1	02/11/16	174 min	3.63 L/min	632 L
Lead	NIOSH 7082M		<2.00 µg	2.00 µg	<3.17 µg/m3	<1.15 µg/m3
159037-009	122B-PbA-009	Blank	02/11/16			
Lead	NIOSH 7082M		<2.00 µg	2.00 µg		

Analyst: OHE
159037-02/18/16 12:25 PM

(b) (6)
Re [Redacted]
Metals Supervisor

OSHA 8 Hr Permissible Exposure Limit (PEL)

Parameter	PEL
Lead	0.0500 mg/m ³ [50.0 µg/m ³]

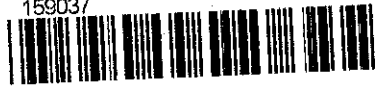
Concentration is based on volumes provided by customer. *RL indicates Reporting Limit. All internal QC parameters were met. Unusual sample conditions, if any, are described. Results are not blank-corrected unless noted by analyst. Exposure calculations are based on customer-supplied information and assume zero exposure for time not sampled. Calculated values are reported to three significant figures. The test results reported relate only to the samples submitted.



SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
 www.slabinc.com e-mail: info@slabinc.com

159037



V:159159037

Submitting Co. OCCU-TEC Inc.	Lab WO#	Phone 816-230-5580
4151 N. Mulberry Drive, Suite 275	Acct # 3505	Fax / Email 816-994-3470 / jayhurst@occutec.com
Kansas City, MO 64116	**State of Collection Missouri	**Cert. Required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Project Name: Goodfellow - Bldg 122 B	Special Instructions [include requests for special reporting or data packages]	
Project Location: St. Louis, MO		
Project Number: 916029		
PO Number:		

Turn Around Time (TAT)	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)		
<input type="checkbox"/> 2 hours* <input type="checkbox"/> Same day* † <input type="checkbox"/> 1 business day* † <input type="checkbox"/> 2 business days* † <input checked="" type="checkbox"/> 3 business days* † <input type="checkbox"/> 5 business days* † <small>* Not available for all tests † A job received past 3PM will begin its TAT the next business day Schedule rush organics, multi-metals & weekend tests in advance.</small>	<small>All samples on form should be of SAME matrix type. Use additional forms as needed.</small> <input checked="" type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water, Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Wipe <input type="checkbox"/> Paint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input checked="" type="checkbox"/> Micro-Vac Dust <input type="checkbox"/> Soil	Asbestos in Air <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) Miscellaneous Tests <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500) Other <input type="checkbox"/>	Asbestos in Bulk <input type="checkbox"/> PLM <input type="checkbox"/> PLM (Point Count) <input type="checkbox"/> PLM (Qualitative only) <input type="checkbox"/> NYELAP <input type="checkbox"/> CAELAP (Point Count) <input type="checkbox"/> TEM (Chatfield)	Metals-Total <input checked="" type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals TCLP <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) 10 day Microbiology <input type="checkbox"/> BACT (MPN & P/A) <input type="checkbox"/> Mold Direct Exam

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type*)	Wiped Area (ft²)	pH / Temp *	Time²		Flow Rate³		Total⁴ Air
						Start	Stop	Start	Stop	
122B-PLA-001	2-11-16	1300	1st Floor - Near Column B-3			1302	1604	3.63	3.63	660.66
-002			1st Fl Near Col H-3			1302	1604	3.63	3.05	607.88
-003			1st Fl Near Col D-1			1302	1604	3.63	3.63	660.66
-004			1st Fl Near Col B-2			1302	1604	3.63	3.63	660.66
-005			Basement - Near A-3			1308	1603	3.63	3.63	635.25
-006			Bsmt - Near B-1			1308	1603	3.63	3.63	635.25
-007			Bsmt - Near C-3			1308	1603	3.63	3.63	635.25
-008			Bsmt - Near D-1			1309	1603	3.63	3.63	596.82
009			BLANK							

*Type: A=Area B=Blank P=Personal E=Excursion †Beginning/End of Sample Period ‡Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min x flow in L/min]
 All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by NAME <u>Jeff Smith</u> SIGNATURE (b) (6) DATE / TIME <u>2-11-16 1800</u>	Relinquished to lab by NAME <u>Jay Hurst</u> SIGNATURE (b) (6) DATE / TIME <u>2/15/16 5:00pm</u>	Sample Disposal <input checked="" type="checkbox"/> Return to Sender (Shipping fees) <input checked="" type="checkbox"/> Disposal by lab <small>(\$60 fee for excessive weight)</small> Shipping Methods <input type="checkbox"/> FX <input type="checkbox"/> UPS <input type="checkbox"/> USM <input type="checkbox"/> HD <input type="checkbox"/> DB WB: <u>2095</u>
---	--	---

* Temperature taken with IR Gun A. **Required. Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

1831 Williamson Court • Suite 100 • Louisville, KY 40223
Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

Date: February 22, 2016

Attention: Jay Hurst
OCCU-TEC

Subject: Analysis of air samples for asbestos mineral fibers by
Transmission Electron Microscopy (TEM)

RE: MSE-2176OCCA.1
Goodfellow Building 122B Project
OCC# 916029

Dear Mr. Hurst:

McCall and Spero Environmental, Inc. has completed the analyses of the air samples we received from your office on February 17, 2016. These samples represent the TEM samples for the Goodfellow Building 122B Project - OCC# 916029.

The TEM counting procedures described for the asbestos-containing materials in schools under the Asbestos Hazard Emergency Response Act (AHERA) were used during the analyses. Specifically, structures were counted in two categories: 0.5 to 5.0 micrometers in length and greater than 5 micrometers in length, which were added together for a total asbestos structure count.

The results for the eight (8) samples are summarized in Table I. TEM sample analysis printouts are also attached.

Thank you for consulting McCall and Spero Environmental, Inc. Should you have any questions concerning these results, please contact our office.

Sincerely,

(b) (6)

S. Dewayne Lear, B.S.
TEM Laboratory Director

SUMMARY OF AHERA TEM RESULTS

TABLE I

Inside Samples

Project Name: Goodfellow Building 122B Project - OCC# 916029

McCall and Spero Project No: MSE-2176OCCA.1

MSE Lab ID	Client ID	# of Asb. Struc.	Asb. Type	Sample Vol. (l)	Calculated Analytical Sensitivity (s/cc)	Conc. (s/cc)	Conc. (s/mm ²)
I01	122B-AA-001	NSD	NA	1452.33	0.0047	BDL (0.0047)*	BDL (17.7)*
I02	122B-AA-002	NSD	NA	1400.70	0.0049	BDL (0.0049)*	BDL (17.7)*
I03	122B-AA-003	NSD	NA	1384.60	0.0049	BDL (0.0049)*	BDL (17.7)*
I04	122B-AA-004	NSD	NA	1392.65	0.0049	BDL (0.0049)*	BDL (17.7)*
I05	122B-AA-005	NSD	NA	1519.02	0.0045	BDL (0.0045)*	BDL (17.7)*
I06	122B-AA-006	NSD	NA	1408.75	0.0048	BDL (0.0048)*	BDL (17.7)*
I07	122B-AA-007	NSD	NA	1424.85	0.0048	BDL (0.0048)*	BDL (17.7)*
I08	122B-AA-008	NSD	NA	1440.95	0.0047	BDL (0.0047)*	BDL (17.7)*

Filter Type: MCE
Filter diameter: 25mm
Effective filter Area: 385mm²
Pore Size: 0.45um

Mean Grid Square Area: 0.00940mm²
Grid Openings Analyzed Per Sample: 6
Area Analyzed Per Sample: 0.0564mm²
Non-Asbestos Debris: Non-Fibrous Debris

Notes:
F=Fiber B=Bundle C=Cluster M=Matrix NSD=No Structures Detected
NA = Not Applicable BDL = Below Detectable Limit CH = Chrysotile A = Amosite
SAED=Selected Area Electron Diffraction EDS=Energy Dispersive Spectrometry
s/mm² - asbestos structures per square millimeter
s/cc = asbestos structures per cubic centimeter
* Single fiber detection limits are used when no structures are detected.

Results apply only to the items listed.
The analysis was performed according to the TEM Method (40CFR part 763).
This laboratory is in compliance with the specified method.
Analytical results may not be used by any party to claim product endorsement by NVLAP or any agency of the U.S. Government.

(b) (6)

TEM Laboratory Director:

Date: 2/22/16



McCall and Spero Environmental, Inc.

Specialists in Microanalysis

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Phone (502) 244-7135 • (800) 841-0180 • FAX (502) 244-7136

E-mail: customerservice@mse-labs.com • Website: www.mse-labs.com

TEM AHERA CHAIN OF CUSTODY FORM

Company: <u>OCCU-TEC INC.</u>	Telephone #: <u>816-231-5580</u>	Fax #: <u>816-994-3470</u>
Contact: <u>Jay Hurst</u>	Client Project Number: <u>916029</u>	
Relinquished by: <u>(b) (6)</u>	Date: <u>2/15/16</u>	Time: <u>5:00 pm</u>
Written Report To: <u>jayhurst@occutec.com ; jsmith@occutec.com</u>		
Project Name: <u>Goodfellow Building 122 B</u> <u>3 DAY</u>		
Turn-Around Time: (Circle One) 4 Hour 6-8 Hour (same day) 24 Hour <u>3 Day</u> 4-5 Day Weekend Rush After Hour Rush		

~~For Laboratory Use Only~~

MSE Project #: <u>MSE-717700(CA-1)</u>	Comments: <u>Initial</u>
Samples Received by: <u>(b) (6)</u>	Date: <u>02/17/16</u> Time: <u>10:00 AM</u>
Sample To Be Analyzed by: <u>TEM AHERA / EPA 40 CFR Part 763</u>	
Samples Prepared By: <u>(b) (6)</u>	Method: <u>Burdett & Rood</u>
Samples Analyzed By: <u>(b) (6)</u>	Date: <u>2/18/16</u>

Client ID Number	Sample Location / Type (I)inside(O)outside(B)blank (P)personal(A)ambient	Start Time	Stop Time	Total Time x Liters/Minute = Volume		
122B-AA-001	1 st FLOOR Column B-3	0913	1206	173	8.395	1452.33
122B-AA-002	1 st FLOOR Column E-3	0913	1207	174	8.05	1400.7
122B-AA-003	1 st FLOOR Column D-2	0915	1207	172	8.05	1384.6
122B-AA-004	1 st FLOOR Column B-2	0915	1208	173	8.05	1392.65
122B-AA-005	BASEMENT Column B-2	0930	1224	174	8.73	1519.02
122B-AA-006	BASEMENT Column B-3	0928	1223	175	8.05	1408.75
122B-AA-007	BASEMENT Column C-2	0926	1223	177	8.05	1424.85
122B-AA-008	BASEMENT Column C-1	0925	1224	179	8.05	1440.95
122B-AA-009	BLANK					

Results Transmitted/Date: _____ Fax/Phone By: _____

APPENDIX B
QUALIFICATIONS AND LICENSE DOCUMENTATION

Approval Date: 8/22/1997

Certificate Number : 7007082297MOAS2285

Social Security Number : 494-52-7662

Missouri State Certificate for Asbestos Related Occupations

issued by Department of Natural Resources

P.O. Box 176

Jefferson City, MO 65102

Phone (314) 751-4817

Jeffrey T. Smith

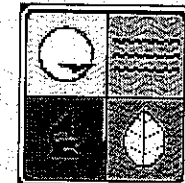
has successfully completed the requirements for certification as an **AIR SAMPLING PROFESSIONAL**. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

8/29/97

Date

(b) (6)

Director of Air Pollution Control Program



STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

JEFFREY SMITH

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: **3/16/2015**
Expiration Date: **3/16/2017**
License Number: **010316-200089640**

(b) (6)



Gail Vasterling
Director
Department of Health and Senior Services

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

Expiration Date: N/A

Certificate Number: 7070111MOASP13670

Training Date: 7/1/2011

Missouri State Certificate for Asbestos Related Occupations

issued by Department of Natural Resources

P.O. Box 176
Jefferson City, MO 65102
Phone (573) 751-4817

Justin E. Arnold

has successfully completed the requirements for certification as a AIR SAMPLING PROFESSIONAL. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

(b) (6)

7/5/2011

Date

Director of Air Pollution Control Program



STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

JUSTIN ARNOLD

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: 6/11/2014
Expiration Date: 6/11/2016
License Number: 120611-300003622

(b) (6)



Gail Vasterling
Director
Department of Health and Senior Services

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

Expiration Date:

N/A

Certificate Number: 7031008MOAS9563

Training Date:

3/10/2008

Missouri State Certificate for Asbestos Related Occupations

issued by Department of Natural Resources

P.O. Box 176

Jefferson City, MO 65102

Phone (573) 751-4817

Jay W. Hurst

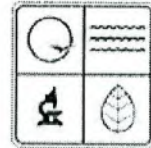
has successfully completed the requirements for certification as a AIR SAMPLING PROFESSIONAL. This Missouri State Certification is subject to review and the director may deny, suspend or revoke the certification per RSMo chapter 643.230.

3/11/2008

Date

(b) (6)

Director of Air Pollution Control Program





Missouri Department of Health and Senior Services

P.O. Box 570, Jefferson City, MO 65102-0570 Phone: 573-751-6400 FAX: 573-751-6010
RELAY MISSOURI for Hearing and Speech Impaired 1-800-735-2966 VOICE 1-800-735-2466

Gail Vasterling
Director



Jeremiah W. (Jay) Nixon
Governor

November 21, 2014

JAY HURST
5860 N KIRKWOOD AVENUE
KANSAS CITY MO 64151-

Dear Licensee:

After a review of your renewal application for a lead occupation license, you have been approved for a Lead Risk Assessor license.

Please find enclosed your Lead Risk Assessor license certificate and photo identification badge. Note the date your Lead Risk Assessor license expires. A renewal application will need to be completed and submitted 60 days prior to the expiration date. Please insure that refresher training is completed within twelve months prior to your license expiration date.

If you intend to perform any regulated lead-bearing substance activity including risk assessment, lead inspection, lead abatement or lead abatement project design, you must be employed by a licensed lead abatement contractor.

Please have your identification badge with you at all times while conducting lead abatement activities.

If you have any questions or need additional information, please contact our office at 573/526-5873 or toll free at 888-837-0927.

Sincerely,

(b) (6)

Angie DeBroeck
Lead Licensing Program

Enclosures



Missouri Department of Health and Senior Services

(b) (6)

Lead Occupation License - ID Badge
License Number: 101208-300003181

Lead Risk Assessor

JAY HURST

Expiration Date: 12/08/2016

www.health.mo.gov

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The Missouri Department of Health and Senior Services will be the leader in promoting, protecting and partnering for health.

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER: Services provided on a nondiscriminatory basis.

APPENDIX C

LABORATORY CERTIFICATION DOCUMENTATION

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101895-0

McCall and Spero Environmental, Inc.
Louisville, KY

*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).*

2015-07-01 through 2016-06-30

Effective Dates



(b) (6)

For the National Voluntary Laboratory Accreditation Program



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Schneider Laboratories Global, Inc.

2512 West Cary Street, Richmond, VA 23220-5117

Laboratory ID: 100527

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

- | | |
|--|-----------------------------------|
| <input type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: 06/01/2017 |
| <input type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: 06/01/2017 |
| <input type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 06/01/2017 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> 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.

(b) (6)

(b) (6)

Gerald Schultz, CIH
Chairperson, Analytical Accreditation Board

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

Revision 14: 03/26/2014

Date Issued: 08/31/2015