

TABLE OF CONTENTS

TECHNICAL SPECIFICATIONS

01043 Project Coordination	01043-1
01092 Codes and Regulations	
01410 Air Monitoring - Industrial Hygiene Firm Services	
01503 Temporary Facilities	01503-1
01513 Negative Pressure System	01513-1
01526 Work Area Preparation	01526-1
01560 Worker Protection	01560-1
01562 Respiratory Protection	01562-1
01563 Decontamination Units	01563-1
01711 Project Decontamination	01711-1
01714 Work Area Clearance	01714-1
02080 Asbestos Removal	02080-1
02084 Disposal of Asbestos-Containing Waste Material	02084-1

Appendices

Appendix A Prework Asbestos Inspection Checklist	Appendix A-1
Appendix B Decontamination Area Arrangement	Appendix B-1
PCB Remediation Plan	
PLM Sample Results (October 14, 2024)	
PCB Sample Results (October 17, 2024)	
PLM Sample Results (March 22, 2024)	
Limited Lead-Based Paint Survey Report (March 24, 2024)	
Asbestos Inspection Report (January 12, 2023)	
Asbestos inspection report (January 12, 2023)	

ABATEMENT DRAWINGS

AB-1 – Floor 1/Basement AB-2 – Floor 2 AB-3 – Floor 3 AB-4 – Floor 4

PROJECT COORDINATION

1.01 GENERAL

- A. All asbestos abatement contractors will be licensed general contractors in either the specialty interior, building, unclassified or asbestos categories by the North Carolina Licensing Board of General Contractors and limited for the bid amount.
- B. The contractor shall be responsible for inspecting the site prior to bidding to confirm the scope of the work. Any quantities listed by the designer in the plans, specifications or survey are done so as approximations. The actual quantities of asbestos-containing material to be encountered is the responsibility of the contractor.
- C. The contractor shall furnish and is responsible for all costs including, but not limited to: permit fees, containment preparation, labor, materials, services, insurance, bonding, and equipment necessary to carry out the abatement operations and disposal of all asbestos material in accordance with the plans and specifications, the EPA and OSHA regulations, and any applicable state and local government regulations.
- D. The contractor/employer has and assumes the responsibility of proceeding in such a manner that he offers his employees a workplace free of recognized hazards causing or likely to cause death or serious injury. The contractor shall be responsible for performing this abatement and disposal so that airborne asbestos fiber levels do not exceed established levels.
- E. The contractor will be responsible for all costs associated with employee monitoring to meet the OSHA requirements.
- F. The contractor is responsible for all costs, including additional visits, should the designer and/or the industrial hygiene firm determine that the contractor failed a final inspection. Notification and scheduling of the final inspection during the project is the responsibility of the contractor. The contractor will allow a minimum notice of 72 hours unless a different time frame is agreed upon by the designer and the contractor.
- G. Contractor shall coordinate all asbestos removal activities with the owner and designer. Owner shall have continuous use of areas not included in the scope of this project.

1.02 PERSONNEL

- A. Supervisor
 - 1. All supervisors shall be accredited by the Health Hazards Control Unit (HHCU).
 - 2. All supervisors on the project shall have five years experience in the administration and supervision of asbestos abatement projects including work practices, protective measures for building and personnel, disposal procedures, etc.
 - 3. One supervisor shall be provided for every 10 workers inside the containment. A minimum of one supervisor shall be provided per project.
 - 4. The contractor shall have at least one employee on the job site in either a foreman or supervisor's position who is bilingual in the appropriate languages when employing workers who do not speak fluent English.
 - 5. A minimum of one supervisor per company shall have attended a 24 hour respiratory protection course.
 - 6. The abatement contractor shall also be a North Carolina Certified Renovator in accordance with the standards of the Lead-Based Paint Renovation, Repair and Painting Program (EPA CFR Part 745).
- B. Worker
 - 1. All workers shall be accredited by the HHCU.
- C. Competent Person
 - 1. A competent person, as defined in the OSHA asbestos standard 29 CFR 1926.1101, employed by the contractor must be outside the work area at all times to monitor activity, ensure containment security, provide information to visitors, and provide access to the work area.
- D. Employees
 - 1. The contractor is responsible for the behavior of workers within his employment. If at any time during the contracted work, any of his employees are judged to exhibit behavior unfitting for the area or judged to be a nuisance by the owner or designer, the contractor shall remove them immediately from the project.
 - 2. The contractor shall be responsible for compliance with the following concerning employee behavior:
 - a. Under no circumstances are alcohol, drugs or any other type of controlled substances permitted on state property.

- b. All workers are restricted to the construction project site only.
- c. All vehicles must be parked in areas prearranged with the owner.
- d. All workers must conform to the following basic dress code when in public areas of the project confines: long pants, shirts, no tank tops, no shorts, no bare backs.
- e. The contractor is responsible for disposal of all trash brought on state property by his employees, including drink cans, bottles or other food containers and wrappers.
- 3. Failure to adhere to these rules could result in criminal prosecution and/or removal from the State property.

1.03 MEETINGS

- A. A pre-bid conference will be held by the owner. All remediation contractors submitting a bid are required to attend, visit the site and ask questions concerning the plans and specifications.
- B. Pre-construction Prior to beginning work on the project, an asbestos preconstruction meeting will be held at the site. The purpose of the pre-construction meeting shall be to coordinate scheduling, operation, and overall logistics for execution of the project. Contractor's project manager and supervisor are required to attend.

1.04 PRE-JOB SUBMITTALS

- A. Submit three complete, bound sets of pre-job submittals to the designer at least 10 days prior to start of work. Work is prohibited until submittal package has been reviewed and approved by designer. A copy of the approved submittals shall be kept in a three-ring binder (project log) by the contractor at the project site in the clean room or in the on-site office of the contractor.
 - 1. Notifications: Provide copies of Asbestos Permit Application and Notification for Demolition/Renovation (DEHNR 3768), which provide written notice to all required agencies, including North Carolina HHCU. Provide notification letters to local EMS, fire and police departments.
 - 2. Employee List: Provide copies of lists of supervisors and workers, along with their accreditation and Social Security numbers, to be utilized on the project.
 - 3. Permits: Provide copies of approval of a waste disposal site in compliance with 40 CFR 61.154.
 - 4. Medical: Include individually signed forms by each worker to be utilized on the project documenting that each is actively involved in a company employee medical surveillance program.

- 5. Respirator Training: Copies of most recent fit testing records, individually signed for each worker to be utilized on the project.
- 6. Project Schedule: Time schedule for the project, outlining the proposed start, setup, clearances, etc. for the project.
- 7. Initial Exposure Assessment: As required by the OSHA construction asbestos standard 29 CFR 1926.1101.
- 8. Any other programs or training as outlined by the OSHA and EPA standards.

1.05 POST-JOB SUBMITTALS

- A. Submit three complete, bound sets of post-job submittals to the designer following the final completion of the work. Requests for final payment will not be approved until the submittal package has been reviewed and approved by the designer.
 - 1. Affidavits: Contractor's affidavit of payment of debts and claims, affidavit of release of liens, and consent of surety company to final payment.
 - Manifest: North Carolina Asbestos Waste Shipment Record (DEHNR 3787) receipt from landfill operator which acknowledges the contractor's delivery(s) of waste material. Include date, quantity of material delivered and signature of authorized representative of landfill. Also, include name of waste transporter.
 - 3. Daily Log: A copy of all daily logs showing the following: name, date, entering and leaving time, company or agency represented, reason for entry for all persons entering the work area, employee's daily air monitoring data as required by the OSHA standard and written comments by inspectors, industrial hygienists, designers and visitors.
 - 4. Worker Submittals: Provide copies of accreditations, social security numbers, and medicals for all new workers utilized on the project.
 - 5. Special Reports: All documents generated under Section 01043.1.06.

1.06 SPECIAL REPORTS

- A. General: Except as otherwise indicated, submit special reports to designer within one day of occurrence requiring special report, with copies to others affected by occurrence. Also keep a copy in the project log book.
- B. Reporting Unusual Events: When an event of unusual and significant nature occurs at site (examples: failure of negative pressure system, rupture of temporary enclosures), prepare and submit a special report to the designer immediately, listing chain of events, persons participating, response by contractor's personnel, evaluation of results or effects, and similar pertinent information. When such events are known or predictable in advance, advise designer in advance at earliest possible date.

C. Reporting Accidents: Prepare and submit reports of significant accidents, at site and anywhere else work is in progress. Record and document date and actions; comply with industry standards for reporting accidents. For this purpose, a significant accident is defined to include events where personal injury is sustained, or property loss of substance is sustained, or where the event posed a significant threat of loss or personal injury.

1.07 CONTINGENCY PLAN

- A. Contingency Plan: Prepare a contingency plan for emergencies including fire, accident, power failure, negative pressure system failure, supplied air system failure (if applicable), evacuation of injured persons for both life threatening and non-life threatening, or any other event that may require modification or abridgment of decontamination or work area isolation procedures. Include in plan specific procedures for decontamination or work area isolation. Note that nothing in this specification should impede safe exiting or providing of adequate medical attention in the event of an emergency. Keep these plans in the on-site office.
- B. Post outside/in clean room of Personnel Decontamination Unit:
 - 1. Telephone numbers and locations of emergency services including but not limited to, fire, ambulance, doctor, hospital, police, power company, telephone company and the North Carolina HHCU.
 - 2. A copy of Material Safety Data Sheets (MSDS) for any chemicals used during the asbestos project.
 - 3. The contractor shall post asbestos signs in each appropriate language as per the OSHA 29 CFR 1926.1101 standard.

CODES AND REGULATIONS

1.01 REFERENCE SPECIFICATIONS

The contractor shall assume full responsibility and liability for compliance with all applicable federal, state and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site.

Unless modified by these project specifications, all specifications for stripping, removal, repair and disposal work shall conform to the following specifications and standards, as applicable, as if completely reproduced herein.

- A. The following regulations published by the Environmental Protection Agency (EPA):
 - "National Emissions Standards for Hazardous Air Pollutants Asbestos," 40 CFR Part 61, Subpart M.
 - 2. "General Provisions," 40 CFR Part 61, Subpart A.
 - 3. "Guidance for Controlling Asbestos-Containing Materials in Buildings" June 1985. (EPA # 560/5-85-024).
 - 4. "Asbestos-Containing Materials in Schools," 40 CFR Part 763, Subpart E including appendices.
- B. The following regulations published by the U.S. Department of Labor, OSHA:
 - 1. "Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite; Final Rules," Title 29, Part 1910, Section 1001 and Part 1926, Section 1101 of the Code of Federal Regulations.
 - 2. "Respiratory Protection," Title 29, Part 1910, Section 134 of the Code of Federal Regulations.
 - 3. Construction Industry, Title 29, Part 1926, of the Code of Federal Regulations.
 - 4. "Access to Employee Exposure and Medical Records," Title 29, Part 1910, Section 20 of the Code of Federal Regulations.
 - 5. "Hazard Communication," Title 29, Part 1926, Section 59 of the Code of Federal Regulations.
 - 6. "Specifications for Accident Prevention Signs and Tags," Title 29, Part 1910, Section 145 of the Code of Federal Regulations.

Technical Specifications for Asbestos Abatement Mann Hall

November 13, 2024

- C. The following regulations published by North Carolina state agencies:
 - 1. North Carolina Asbestos Hazard Management Program Rules as adopted by 15A NCAC 19C .0600.
 - 2. "North Carolina Occupational Safety and Health Standards for the Construction Industry," 29 CFR Part 1926 as adopted by T13 NCAC 07F .0201, and shipyard T13:07F.0500.
 - 3. North Carolina General Statutes, Chapter 95, 97, 130.
- D. The following documents published by the American National Standards Institute:
 - 1. "Fundamentals Governing the Design and Operation of Local Exhaust Systems," Z9.2-1979.
 - 2. "American National Standard for Respiratory Protection Respiratory Use -Physical Qualifications for Personnel," Z88.6-1984.
 - 3. "Practices for Respiratory Protection," Z88.2-1992.

1.02 NOTICES

- A. The contractor shall notify the following offices in writing within the time frame specified by the NESHAP regulations prior to beginning any asbestos removal operations.
 - 1. State Agencies

NC Department of Health and Human Services – OEEBDivision of Public HealthHealth Hazard Control Unit
(Regular Mail)(IPS, Fed Ex,1912 Mail Service CenterRaleigh, N.C. 27699-1912Phone: (919) 733-0820Fax:(919) 733-8493Room D-1F505 Six Forket

(UPS, Fed Ex, etc.) NCDHHS Health Hazard Control Unit NCDHHS/Public Health Room D-1 5505 Six Forks Road Raleigh, N.C. 27609-3806

N.C. Department of Labor Division of Occupational Safety and Health 319 Chapanoke Road, Suite 105 Raleigh, N.C. 27603-3432 Telephone: 1-800-LABOR-NC or (919) 662-4602 Fax: (919) 662-4625 2. Emergency Departments

Notify the local emergency medical services, police and fire departments in writing of the type and scope of work being performed and request these departments make an inspection prior to beginning the work.

3. Licenses

Maintain current licenses for contractor and accreditation for workers and supervisors as required by applicable State or local jurisdictions for the removal, transporting, disposal or other regulated activity relative to the work of this contract.

4. Contractor is responsible for payment of all permit fees required for this project.

AIR MONITORING - INDUSTRIAL HYGIENE FIRM

1.01 GENERAL

- A. The owner shall be responsible for the coordination and contracting of an industrial hygiene firm. Services of the industrial hygiene firm will be paid by the owner.
- B. Air monitoring shall be done under the direct supervision of a North Carolina accredited supervising air monitor (SAM), except for sampling performed by the contractor to satisfy OSHA requirements.
- C. SAM shall be accredited per the Asbestos Hazard Management Program rules.
- D. Air monitor shall be accredited as per the Asbestos Hazard Management Program rules and work under the direct supervision of a SAM.
- E. The SAM representing each firm shall have taken a 24-hour respiratory protection course that is either NIOSH, AIHA or HHCU recognized.
- F. The industrial hygiene firm shall submit copies of their N.C. accreditation's and documentation on respiratory protection training to the designer prior to the award of the contract.
- G. If specific project activities are assigned to an air monitor, the SAM is expected to be in direct control and responsible for industrial hygiene work completed on the project. The SAM shall approve and sign all air monitoring results performed by the air monitor. The SAM signature must be an original. No rubber stamp signature shall be accepted.
- H. Employees of the HHCU shall have right of entry into the project. The HHCU's SAM shall have final authority over the industrial hygiene firm on the project.

1.02 DESCRIPTION OF WORK

- A. The industrial hygiene firm shall offer expertise to the designer and contractor, but is not directly responsible for the performance of the job.
- B. At the job site, the industrial hygiene firm is expected to observe, be aware, and comment on general work site conditions and activities as they relate to the specifications and profession of industrial hygiene, and make recommendations in writing to the designer and contractor.
- C. The industrial hygiene firm is responsible for overseeing the protection of the environment from contamination, protection of persons in adjacent areas, and assurance that the areas are acceptable for occupancy.

- D. The industrial hygiene firm has the authority to direct the contractor relative to safety and environmental concerns. This includes stopping the work if necessary. All directions and comments made by the industrial hygiene firm to the contractor shall be written with a copy to the designer.
- E. The industrial hygiene firm shall furnish the contractor a copy of his field report within 24 hours of the visit. Copies of field notes and reports of observations shall be kept in project log book.
- F. The SAM shall review and make comments to the designer on the submittals listed in Section 01043.
- G. The SAM shall approve any change in contractor's respiratory protection. This includes a review of the historical data.
- H. The industrial hygiene firm is to conform to the contractor's schedule and shall respond to necessary changes, provided an advance notice is given as outlined in Section 01043.
- I. The industrial hygiene firm's project monitor shall furnish designer and contractor with a pager or mobile phone number where he can be reached quickly at all times.
- J. The industrial hygiene firm shall notify the designer and contractor, in writing, of any failed clearance visits.
- K. At the completion of the project, the industrial hygiene firm shall prepare a report describing the assessment of the project, all air monitoring data, acceptance letters, calibration records, and a description of the project as it proceeded to completion and submit four copies of the report to the designer.

1.03 AIR MONITORING

- A. Ambient Air Monitoring: The purpose of ambient air monitoring by the industrial hygiene firm will be to detect discrepancies in the work area isolation such as:
 - 1. Contamination of the building outside of the work area with airborne asbestos fibers.
 - 2. Failure of filtration or rupture in the negative pressure system.
 - 3. Confirm the work practices established by the contractor and respiratory protection provided for employees are adequate.
- B. Work Area Airborne Fiber Levels: The owner's industrial hygiene firm will monitor airborne fiber levels in the work area. The purpose of this air monitoring will be to detect airborne fiber levels which may challenge the ability of the work area isolation procedures to protect the balance of the building or outside of the building from contamination by airborne fibers.

- C. Work Area Clearance: To determine if the elevated airborne fiber levels encountered during abatement operations have been reduced to an acceptable level, the industrial hygiene firm will sample and analyze air per Section 01714.
- D. In accordance with AHMB Program Rules, the SAM shall develop an Abatement Project Monitoring Plan which complies with EPA and OSHA analytical criteria and will provide a valid representation of airborne fiber concentrations both inside and outside the work area. This program is not intended to satisfy the contractor's requirement for sampling under the OSHA regulation. All personnel and area sampling conducted by the industrial hygiene firm shall be personally observed. Air sampling pumps shall not be left unattended for extended periods of time.
 - 1. The SAM shall submit a written project monitoring plan to the designer with a copy to the contractor. The following information shall be required for the submittal.
 - a. The name, address and telephone number of the industrial hygiene firm.
 - b. The name, address, telephone number and NIOSH's PAT designation and proficiency data for the laboratory analyzing the air samples. Analysis of all samples collected shall be by a laboratory currently proficient in NIOSH's "Proficiency Analytical Testing Program for Laboratory Quality Control" for asbestos. The acceptable sampling and analysis method is NIOSH 7400, latest revision.
 Persons performing phase contrast microscopy (PCM) analysis at the asbestos removal location shall be proficient in the American

the asbestos removal location shall be proficient in the American Industrial Hygiene Association's Asbestos Analyst Registry Program [AAR].

- c. A proposed air sampling strategy which shall include: a projected number of air samples, locations, the types of air samples to be collected (personal, area, ambient), how the air samples are to be collected (TWA, ceiling, other), the equipment to be used (pumps, calibration equipment, filters, other), and how the samples will be transported to the laboratory.
 - 1. All personal air samples will be collected in such a manner as to comply with OSHA collection and analytical regulations and to provide a valid representation of airborne fiber levels. The samples collected by the industrial hygiene firm on personnel do not satisfy the contractor's responsibility under OSHA.
 - 2. All final area air sampling will comply with all State and Federal requirements in measuring airborne asbestos following an abatement action.

- 3. Air samples will be analyzed and results made available as per the AHMB Program Rules. Copies of all air sampling results shall be signed by the SAM and a copy posted at the job site. These copies shall include the following: sample number, sample location, activity represented by sample, flow rate, sample time, comments and sample results. A statement will be included on each submission that the requirements of this contract have been met as they apply to the activities of the SAM.
- 4. If TWA samples are being collected by the contractor for the purpose of reducing respiratory protection requirements, the industrial hygiene firm shall directly observe the conditions and work practices represented by each sample and make appropriate notes in the bound book on site. The SAM shall review all TWA air sampling results which are used for reducing respiratory protection requirements before accepting the results.
- E. Supplemental air monitoring may be conducted inside and outside the work area by the HHCU. This supplemental sampling does not fulfill air monitoring responsibilities required by OSHA, EPA or this contract.

TEMPORARY FACILITIES

1.01 GENERAL

- A. Provide temporary connection to existing building utilities or provide temporary facilities as required herein or as necessary to carry out the work.
- B. Use qualified tradesmen for installation of temporary services and facilities. Locate, modify and extend temporary services and facilities where they will serve the project adequately and result in minimum interference with the performance of the work.
- C. The owner's maintenance personnel shall lock and tag out all electrical and HVAC equipment in the asbestos abatement area. The contractor shall verify that the power and HVAC have been locked and tagged out prior to beginning work.
- D. The owner shall move all furniture, books, computers, records, equipment, etc. prior to the contractor's arrival date as specified.

1.02 WATER SERVICE

- A. Owner shall supply a source of water. Contractor bears all expense of heating and getting water to the work and decontamination areas.
- B. Supply hot and cold water to the decontamination unit in accordance with Section 01563. Hot water shall be supplied at a minimum temperature of 100 degrees Fahrenheit.
- C. After completion of use, connections and fittings shall be removed without damage or alteration to existing water piping and equipment.

1.03 ELECTRICAL SERVICE

- A. General: Comply with applicable NEMA, NEC and UL standards and governing state and local regulations for materials and layout of temporary electric service.
- B. Ground Fault Protection: Provide receptacle outlets equipped with ground fault circuit interrupters, reset button and pilot light, for plug-in connection of power tools and equipment.
- C. Provide a weatherproof, grounded temporary electric power service and distribution system of sufficient size, capacity and power characteristics to accommodate performance of work during the construction period.
- D. Install temporary lighting adequate to provide sufficient illumination for safe work and traffic conditions in every area of work.

- E. Provide services of an electrician, on a standby basis, to service electrical needs during the abatement process.
- F. Provide additional power service and distribution service, consisting of individual dedicated 15 amp 120 volt circuits to electrical drops with receptacle outlets equipped with ground fault interrupt protection, color coded for the exclusive use of the industrial hygiene firm. Provide a minimum of five drops per containment inside work area.

1.04 FIRST AID

A. A minimum of one first aid kit shall be located in the clean room. Additional first aid kits as the contractor feels is adequate or is required by law shall be located throughout the work area.

1.05 FIRE EXTINGUISHERS

A. Comply with the applicable recommendations of NFPA Standard 10 - "Standard for Portable Fire Extinguishers." Locate fire extinguishers where they are most convenient and effective for their intended purpose, but provide not less than one extinguisher in each work area equipment room and one in the clean room of the personnel decontamination unit.

1.06 TOILET FACILITIES

A. Provide temporary toilet facilities to be used by contractor's employees. Location of toilet facilities shall be approved by owner.

1.07 PARKING

A. Park only in areas designated by the owner.

1.08 BUILDING SECURITY

A. Maintain personnel on-site at all times any portion of the work areas are open or not properly secured. Secure work areas completely at the end of each day.

1.09 STORAGE

A. Supply temporary storage required for storage of equipment and materials for duration of project. Trailer and storage dumpsters will be maintained in areas designated by the owner.

NEGATIVE PRESSURE SYSTEM

1.01 GENERAL

- A. High efficiency particulate air (HEPA) filter exhaust systems equipped with new HEPA filters for each containment shall be used. Exhaust equipment and systems shall comply with ANSI Z9.2-79 and used according to manufacturer's recommendations.
- B. A system of HEPA-equipped air filtration devices shall be configured so that a pressure differential is established between the work area and the surrounding area (-0.02 to -0.04" water column). A continuous chart-recorded manometer shall be used to confirm this condition.
- C. Additional air filtration devices shall be provided inside the work area for emergency standby as well as for circulation of dead air spaces.
- D. The pressure differential is maintained at all times after preparation is complete and until the final visual inspection and air tests confirm the area is clean and acceptable for occupancy and the designer confirms verbally with written followup to discontinue the use of the negative pressure system.
- E. Air shall be exhausted outside the building. Any variations must be approved by the designer. Locations of negative air exhaust shall be approved by owner and designer. Contractor shall install templates (5/8" fire rated plywood) for exhaust of negative air. Contractor is responsible for removal and replacement of windows required for negative air exhaust.
- F. The contractor shall check daily for leaks and log his checks in the bound log book. This includes checks internal to air-moving devices.
- G. There shall be a minimum of four air changes per hour in any containment.

WORK AREA PREPARATION

1.01 GENERAL

- A. Before work begins in an area, a decontamination unit must be in operation as outlined in Section 01563.
- B. Completely isolate the work area from other parts of the building so as to prevent contamination beyond the isolated area.
- C. Temporary facilities shall be addressed as outlined in Section 01503.

Full Containment (Interior)

Spray-Applied Ceiling Texture Asbestos-Containing Spline Ceiling Tiles Asbestos-Containing Floor Tile and Associated Mastic Asbestos-Containing Floor Tile Mastic Thermal System Pipe Insulation Asbestos-Containing Door Caulk

- D. The contractor shall set up a work area, load out, and decontamination area as described in the specifications. Any variations must be approved by the designer. The decontamination facility outside of the work area shall consist of a change room, shower room and equipment room as described in Section 01563.
- E. Critical Barriers: The contractor shall thoroughly seal (2-layers of 6-mil polyethylene sheeting) the work area for the duration of the work by completely sealing off all individual openings and fixtures in the work area, including, but not limited to, heating and ventilation ducts, doorways, corridors, windows, skylights and lighting, with polyethylene sheeting taped securely in place. If the contractor is using sealant materials to fill in small holes or cracks, the material shall have appropriate fire ratings.
- F. The contractor shall wet clean and/or HEPA vacuum all items and equipment in the work area suspected of being contaminated with asbestos, but not in direct contact with the asbestos material and either secure these items in place with polyethylene sheeting or have them removed from the work area.
- G. Floors: Where flooring does not exist for removal, apply two layers of 6 mil (minimum) polyethylene plastic sheeting with joints overlapped 24 inches and taped securely. Plastic shall be carried up walls a minimum of 12 inches and secured.
- H. Walls: Apply two layers of 6 mil (minimum) polyethylene plastic sheeting with joints lapped 24 inches and taped securely. Plastic shall be lapped over floor (if applicable) coverings and taped securely (exclude wall scheduled for demolition).

- I. Floors and walls shall be installed in such a manner that they may be removed independently of each other and the critical barriers.
- J. Entrances and exits from the work area will have triple barriers of polyethelene plastic sheeting so that the work area is always closed off by one barrier when workers enter or exit.
- K. No water may be left standing on the floor at the end of the work day.
- L. Floor surfaces, walls, finishes or coverings, etc., that in the contractor's opinion will likely be damaged by water or that may become contaminated with asbestos, shall have additional protective preparation as the contractor sees appropriate, at his cost, to protect the original condition of the surfaces.
- M. Any costs associated with physical damage caused by water or securing polyethylene sheeting to areas inside or outside the abatement area shall be the contractor's responsibility.
- N. The contractor shall establish and mark emergency and fire exits from the work area. Emergency procedures shall have priority over established decontamination entry and exit procedures. Audible and visible fire and emergency evacuation alarms shall be installed so as to be heard and seen throughout the entire work area.
- O. Integrity of these seals shall be regularly checked and maintained by the contractor.
- P. After work area preparation, the contractor shall notify the designer verbally with written follow-up that he is ready for a prework inspection.

Glovebag Removal of Thermal System Insulation

- A. The contractor shall isolate the work areas utilizing appropriate barrier tape and signage.
- B. Contractor shall install 6-mil polyethylene sheeting on floors below areas of asbestos removal.
- C. Entrances and exits from the work area will have triple barriers of polyethylene plastic sheeting so that the work area is always closed off by one barrier when workers enter or exit. Contractor shall affix appropriate signage to entrance/exit.
- D. Contractor shall utilize local air filtration devices in areas where asbestos abatement is performed.
- E. The contractor shall wet clean and/or HEPA vacuum all items and equipment in the work area suspected of being contaminated with asbestos, but not in direct contact with the asbestos material and either secure these items in place with polyethylene sheeting or have them removed from the work area.

- F. No water may be left standing on the floor at the end of the work day.
- G. Floor surfaces, walls, finishes or coverings, etc., that in the contractor's opinion will likely be damaged by water or that may become contaminated with asbestos, shall have additional protective preparation as the contractor sees appropriate, at his cost, to protect the original condition of the surfaces.
- H. Any costs associated with physical damage caused by water or securing polyethylene sheeting to areas inside or outside the abatement area shall be the contractor's responsibility.
- I. The contractor shall establish and mark emergency and fire exit from the work area. Emergency procedures shall have priority over established decontamination entry and exit procedures. Audible and visible fire and emergency evacuation alarms shall be installed so as to be heard and seen throughout the entire work area.
- J. Integrity of these seals shall be regularly checked and maintained by the contractor.
- K. After work area preparation, the contractor shall notify the designer verbally with written follow-up that he is ready for a prework inspection.

Non-Friable, Non-regulated Removal (Door Caulking and Window Glazing)

- A. Asbestos abatement contractor shall isolate the work area utilizing appropriate barrier tape and signage.
- B. Contractor shall install 6-mil polyethylene sheeting on floors/ground below areas of asbestos removal.
- C. Contractor shall install 6-mil polyethylene sheeting on opposite side of the windows and doors scheduled to be removed.
- D. Asbestos abatement contractor shall apply duct tape or equal to secure window glazing in place during window removal.

WORKER PROTECTION

1.01 GENERAL

- A. Provide worker protection as required by OSHA, state and local standards applicable to the work. Contractor is solely responsible for enforcing worker protection requirements at least equal to those specified in this Section.
- B. Each time the work area is entered the contractor shall require all persons to remove all street clothes in the changing room of the personnel decontamination unit and put on new disposable coverall, new head cover, and a clean respirator. Proceed through shower room to equipment room and put on work boots.
- C. Workers shall not eat, drink, smoke, chew gum or chew tobacco in the work area, the equipment room, the load out area, or the clean room.

1.02 WORKER TRAINING

A. Train all workers in accordance with 29 CFR 1926 and North Carolina state regulations regarding the dangers inherent in handling asbestos, breathing asbestos dust, proper work procedures and personal and area protective measures.

1.03 MEDICAL EXAMINATIONS

A. Provide medical examinations for all workers. Examination shall as a minimum meet OSHA requirements as set forth in 29 CFR 1926 and N.C. Workmen's Compensation Act Dusty Trades Examination Record (DEHNR Form 2796).

1.04 PROTECTIVE CLOTHING

- A. Provide disposable full-body coveralls and disposable head covers, and require that they be worn by all workers in the work area. Provide a sufficient number for all required changes, for all workers in the work area.
- B. Boots: Provide work boots with non-skid soles and, where required by OSHA, foot protection for all workers.
- C. Gloves: Provide work gloves to all workers and require that they be worn at the appropriate times. Do not remove gloves from work area. Dispose of work gloves as asbestos-contaminated waste at the completion of the project.

1.05 ADDITIONAL PROTECTIVE EQUIPMENT

A. Type C respirators, disposable coveralls, head covers and footwear covers shall be provided by the contractor for the owner, the designer, Industrial hygiene firm and other authorized representatives who may inspect the job site.

1.06 DECONTAMINATION PROCEDURES

- A. Require that all workers use the following decontamination procedure as a minimum requirement whenever leaving the work area:
 - 1. Remove disposable coveralls, disposable head covers, and disposable footwear covers or boots in the equipment room.
 - 2. Still wearing respirators, proceed to showers. Showering is mandatory. Care must be taken to follow reasonable procedures in removing the respirator to avoid asbestos fibers while showering. The following procedure is required as a minimum:
 - a. Thoroughly wet body including hair and face.
 - b. With respirator still in place thoroughly wash body, hair, respirator face piece, and all exterior parts of the respirator.
 - c. Take a deep breath, hold it and/or exhale slowly, completely wet hair, face and respirator. While still holding breath, remove respirator and hold it away from face before starting to breathe.
 - d. Carefully wash face piece of respirator inside and out.
 - e. Shower completely with soap and water; rinse thoroughly.
 - f. Rinse shower room walls and floor prior to exit.
 - g. Proceed from shower to changing (clean) room and change into street clothes or new disposable work items.
 - 3. After showering, each employee shall inspect, clean and repair his respirator as needed. The respirator shall be dried, placed in a suitable storage bag and properly stored.

RESPIRATORY PROTECTION

1.01 DESCRIPTION OF WORK

A. Instruct and train each worker involved in asbestos abatement in proper respirator use and require that each worker always wear a respirator, properly fitted on the face, in the work area from the start of any operation which may cause airborne asbestos fibers until the work area is completely decontaminated. Use respiratory protection appropriate for the fiber level encountered in the workplace or as required for other toxic or oxygen-deficient situations encountered.

1.02 GENERAL

- A. Provide workers with personally issued and marked respiratory equipment approved by NIOSH and MSHA and suitable for the asbestos exposure level in the work areas according to OSHA Standard 29 CFR 1926.1101 and other possible contaminants employees might be exposed to during the project.
- B. Provide respiratory protection from the time the first operation involved in the project requires contact with asbestos-containing materials (including construction of decontamination units, construction of airtight barriers/barricades, and placing of plastic sheeting on walls) until acceptance of final air clearance test results by the industrial hygiene firm.
- C. The minimum respiratory protection for the project during gross removal of friable materials shall be a full-face powered air purifying respirator.
- D. The designer may, under certain circumstances, allow the contractor to downgrade respiratory protection during the final cleaning phase. However, the eight-hour TWA air sampling data must document the exposure level, and the SAM must write a letter to the designer allowing the contractor to reduce respiratory protection.
- E. Respirator fit testing shall be performed as a minimum at the beginning of the project, at any change in respiratory protection equipment, and at any time during the project if requested by the employee or SAM. Fit testing is to be performed by one of the methods listed in the 29 CFR 1926.1101, Appendix C.
- F. If supplied air respirators are used, the contractor shall provide a minimum of Grade "D" breathing air as set forth in the Compressed Gas Association's "Commodity Specifications for Air," G-7.1. The contractor shall test for Grade "D" breathing air initially and daily thereafter. Daily testing is not needed if the contractor has an air purification system which has CO and organic purging capabilities as well as a continuous CO monitor and alarm calibrated at 10 ppm. The system must be calibrated at least once a week or when it is moved.

- G. Provide emergency backup air supply, egress SCBA or egress HEPA filters for each worker in work area at all times when Type-C (supplied air) respirators are required. Breathing air system shall provide one hour of reserve air, calculated for maximum crew size for emergency evacuation.
- H. Where Type C respirators are utilized, the contractor is required to have an employee in the vicinity of the source of air. The contractor shall take into account the location of the fresh air intake to ensure no pollutant source is in the vicinity. The audible alarm shall be located where the employees inside and outside containment can hear the alarm.
- I. Do not allow the use of single-use, disposable or quarter-face respirators for any purpose.
- J. The contractor may submit a new exposure assessment (as per 29 CFR 1926.1101) to the SAM with a request to downgrade to less protective respirators. The SAM will make a recommendation to the designer, who will issue a decision in writing to the contractor approving or denying his request. If the contractor disagrees with the decision, then the representative air sampling data may be reviewed by the HHCU for a final decision.

DECONTAMINATION UNITS

1.01 DESCRIPTION OF WORK

A. Provide separate personnel and equipment/loadout decontamination facilities. Require that the personnel decontamination unit be the only means of ingress and egress for the work area. Require that all materials exit the work area through the equipment/loadout decontamination unit. Contractor shall comply with 29 CFR 1926.1101, specifically paragraph (j) Hygiene facilities and practices for employees.

1.02 GENERAL

Provide separate personnel decontamination units and equipment/loadout decontamination units when practical. When personnel decontamination units and equipment / loadout decontamination units are located outside the building, the decontamination units shall be constructed inside a plywood shell. The plywood shell shall be constructed of UL-labeled, fire-treated lumber and plywood. 5/8" non-com ptd. MDO plywood on 3-5/8" non-com studs.

- A. Personnel Decontamination Unit
 - 1. Provide a Personnel Decontamination Unit consisting of a serial arrangement of connected rooms or spaces, changing room, shower room, equipment room. Each shall be separated by a minimum of three curtain doorways. Require all persons without exception to pass through this decontamination unit for entry into and exiting from the work area for any purpose. Do not allow parallel routes for entry or exit. Do not remove equipment or materials through Personnel Decontamination Unit.
 - 2. Provide temporary lighting within decontamination units as necessary to reach an adequate lighting level.
 - 3. Maintain floor of changing room dry and clean at all times. Do not allow the overflow water from the shower to escape the shower room.
 - 4. Damp wipe all surfaces twice after each shift change with a disinfectant solution.
 - 5. Provide hot and cold water, drainage and standard fixtures including an elevated shower head as necessary for a complete and operable shower. A water hose and bucket is not an acceptable shower.
 - 6. Arrange water shut off and drain pump operation controls so that a single individual can shower without assistance from either inside or outside of the work area.

- 7. Pump shower waste water to drain. Provide 20 micron and 5 micron waste water filters in line to drain. Change filters daily or more often if necessary.
- 8. If the decontamination area is located within an area containing friable asbestos on overhead ceilings, ducts, piping, etc., provide the area with a minimum 5/8 inch plywood "ceiling" with two layers of polyethylene sheeting covering the top of the "ceiling."
- 9. Visual Barrier: Where the decontamination area is immediately adjacent to and within view of occupied areas or the exterior of the building, provide a visual barrier of opaque plastic sheeting so that worker privacy is maintained and work procedures are not visible to building occupants. Where the area adjacent to the decontamination area is accessible to the public, construct a solid barrier on the public side of the sheeting to protect the sheeting. Construct barrier with wood or metal studs, max. 16 inches on center, covered with minimum 5/8 inch fire treated plywood.
- 10. Exterior decontamination units shall be constructed in a manner which accommodates the entrance to be locked at the end of shifts or when contractor is not on-site.
- B. Equipment Decontamination Units:
 - 1. Provide an equipment decontamination unit consisting of a serial arrangement of rooms, clean room, holding area, and washroom, each room separated by a minimum of three curtain doorways, for removal of equipment and material from work area. Do not allow personnel to enter or exit work area through equipment decontamination unit.
 - 2. Washroom: Provide washroom for cleaning of bagged or drummed asbestos-containing waste materials passed from the work area.
 - 3. Holding Area: Provide holding area as a drop location for sealed drums and bagged asbestos-containing materials passed from the washroom.
 - 4. Clean Room: Provide clean room to isolate the holding area from the building exterior or occupied areas.
 - 5. Equipment or Material: Obtain all equipment or material from the work area through the equipment decontamination unit according to the following procedure:
 - a. When passing contaminated equipment, sealed plastic bags, drums or containers into the washroom, close all doorways of the equipment decontamination unit, other than the doorway between the work area and the washroom. Keep all outside personnel clear of the equipment decontamination unit.
 - b. Once inside the washroom, wet-clean the bags and/or equipment.

- c. When cleaning is complete, insert bagged material into a clean bag/drum during the pass between the washroom and holding area. Close all doorways except the doorway between the washroom and holding area.
- d. Workers from the building exterior enter the clean room then the holding area to remove decontaminated equipment and/or containers for disposal. Require these workers to wear full protective clothing and respiratory protection as described in Section 01562.
- C. Use of Elevator:

1. Elevator not operational

- D. Decontamination Unit Contamination:
 - 1. If the air quality in the decontamination unit exceeds 0.01 fibers per cc analyzed by PCM or 70 structures per mm squared analyzed by TEM or its integrity is diminished through use as determined by the designer or industrial hygiene firm, no employee shall use the unit until corrective steps are taken and approved by the designer and industrial hygiene firm.

PROJECT DECONTAMINATION

1.01 GENERAL

- A. Carry out a first cleaning of all surfaces of the work area including plastic sheeting, tools, scaffolding and/or staging by use of damp-cleaning and mopping and/or a high efficiency particulate air (HEPA) filter vacuum until there is no visible debris from removed materials or residue on plastic sheeting or other surfaces. Do not perform dry-dusting or dry-sweeping.
- B. Equipment shall be cleaned and all contaminated materials removed before removing polyethlene from the walls and floors.
- C. The contractor shall replace all prefilters and clean the inside and outside of the HEPA exhaust units.
- D. After polyethlene sheets have been removed from walls and floors, but are still remaining on all windows, doors and the critical components, the contractor shall clean all surfaces in the work area, including ducts, electrical conduits, steel beams, roof deck, etc., with amended water and/or HEPA-filtered vacuum.
- E. After cleaning the work area, the contractor shall allow the area to thoroughly dry and then wet-clean and/or HEPA vacuum all surfaces in work area again.
- F. At the completion of the cleaning operation, the contractor's supervisor shall perform a complete visual inspection of the work area to ensure that the work area is dust- and fiber-free. If the supervisor believes he is ready for a final project decontamination inspection, he shall notify the designer.
- G. The designer shall contact the industrial hygiene firm and advise the firm of the final project decontamination inspection requested by the contractor. Work area clearance is described in section 01714.
- H. Final project decontamination inspection includes the visual inspection and air monitoring clearance.
- I. Visual inspection for acceptance shall be performed after all areas are dry.
- J. The industrial hygiene firm shall perform the final visual inspection and conduct the final air clearance. Any discrepancies found shall be documented in the form of a punch list.
- K. Final air sampling shall not commence until the visual inspection is completed and passed.
- L. If the industrial hygiene firm or the designer finds that the work area has not been adequately decontaminated, cleaning and/or air monitoring shall be repeated at

the contractor's expense, including additional industrial hygiene fees, until the work area is in compliance.

- M. After the work area is found to be in compliance, all entrances and exits shall be unsealed and the plastic sheeting, tape and any other trash and debris shall be disposed of in sealable plastic bags (6 mil minimum) and disposed of as outlined in Section 02084.
- N. Contractor shall remove all polyethylene sheeting, tape, and any trash or debris after hours or on weekends.
- O. All HEPA unit intakes and exhausts shall be wrapped with six mil polyethlene before leaving the work area.
- P. After the industrial hygiene firm has approved the final project decontamination and the contractor has completed the tear down for occupancy by others, the designer shall perform the project final inspection as outlined in the general conditions.
- Q. Any residual asbestos that may be present after removing critical barriers, that in the designer's judgment should have been cleaned during the precleaning phase prior to installing critical barriers, shall be cleaned and cleared at the contractor's expense.
- R. There shall be appropriate seals totally enclosing the inspection area to keep it separate from clean areas or other areas where abatement is or will be in progress. Once an area has been accepted and passed air tests, loss of the critical barrier integrity or escape of asbestos into an already clean area shall void previous acceptance and tests. Additional visual and final air clearance sampling shall be required at the contractor's expense.

WORK AREA CLEARANCE

1.01 GENERAL

A. Notification and scheduling of the final inspection during the project is the responsibility of the contractor.

1.02 FINAL CLEARANCE TESTING

- A. After the second cleaning operation and after the area is completely dry, the following procedure test shall be performed:
 - 1. A final visual inspection shall be conducted by the industrial hygiene firm. The inspection shall be conducted following the guidelines set forth in the American Society for Testing and Materials, Standard Practices for Visual Inspection of Asbestos Abatement Projects, Designation: E1368.90. If the work area is found visibly clean, air samples will be collected by the industrial hygiene firm.
 - 2. During the air testing, the accredited air monitor shall cause disruptive air currents as described in the EPA-AHERA regulations (40 CFR Part 763, Subpart E, Appendix A).
 - 3. Clearance samples analyzed by Phase Contrast Microscopy (PCM) (minimum of five samples using NIOSH 7400 Method). The maximum flow rate shall be 12 liters per minute, with a minimum sample size of 2000 liters for each sample. Clearance Criteria shall be less than 0.01 f/cc for all samples.
 - 4. Clearance samples analyzed by Transmission Electron Microscopy (TEM), using the Mandatory Transmission Electron Microscopy Method described in 40 CFR Part 763, Subpart E, Appendix F. Clearance criteria shall be an arithmetic mean less than or equal to 70 structures per square millimeter or a z-test less than or equal to 1.65. Clearance sample turn around shall be 24 hours after TEM samples are collected.

Work Area	Clearance Criteria
Interior - Full Containment	TEM
Glovebag Removal	TEM
Exterior – Nonfriable, Nonregulated door caulking/roofing	Visual

5. The industrial hygiene firm shall immediately report the final air sampling clearance results to the designer.

November 13, 2024

6. The use of the negative pressure system may be discontinued after the industrial hygiene firm instructs the contractor that he has passed the final project decontamination inspection.

.

ASBESTOS REMOVAL

1.01 GENERAL

- A. Prior to starting asbestos removal, the contractor's equipment, work area and decontamination units will be inspected and approved by the designer.
- B. All loose asbestos material removed in the work area shall be adequately wet, bagged, sealed and labeled properly before personnel breaks or end of shift.
- C. All plastic sheeting, tape, cleaning material, clothing and all other disposable material or items used in the work area shall be packed into sealable plastic bags (6 mil minimum) and treated as contaminated material.
- D. All material shall be double-bagged.
- E. All excess water (except shower water) shall be combined with removed material or other absorptive material and properly disposed of as per EPA regulations. Contractor shall not place water in storm drains, onto lawns, or into ditches, creeks, streams, rivers or oceans.

Lead-Based Paint

Lead-based painted components identified in the Limited XRF Lead-Based Paint Survey Report Dated March 24, 2024, may be disturbed during the course of asbestos abatement operations. Personnel performing renovation or demolition activities that may disturb the painted surfaces that contain any quantity of lead should comply with all current OSHA regulations (OSHA Lead in Construction Standard 29 CFR 1926.62) in order to minimize employee exposure to lead.

PCB's

PCB in excess of 50 ppm were found in exterior door caulk, exterior window caulk, exterior vent caulk, interior door caulk and interior duct mastic. PCB less than 50 ppm were found in interior block filler/paint, glue/mastic on duct insulation, and window glazing. Please see attached PCB Remediation Plan.

1.02. SCOPE OF WORK

- A. The scope of work includes the removal and disposal of asbestos-containing spray applied texture from concrete beams and ceilings, floor tile, floor tile mastic, ceiling tiles, transite pipe, thermal system pipe insulation and roof drain insulation, utilizing full containments where shown on the accompanying drawings.
- B. Scope of work also includes the removal of asbestos-containing chalk board mastic, cork board mastic, door caulking, window caulking, roof flashing mastic and roof curb mastic utilizing nonfriable, nonregulated removal techniques.

Technical Specifications for Asbestos Abatement Mann Hall November 13, 2024

C. Estimated quantities of asbestos-containing materials scheduled for removal and disposal throughout the building are listed below: Spray Applied Ceiling Texture 20,105 Square Feet Floor Tile and Floor Tile Mastic 27,300 Square Feet 12"x12" Spline Ceiling Tiles 33,000 Square Feet Cementitious Pipe 100 Linear Feet Thermal System Pipe Insulation and Fittings 2,000 Linear Feet Drain Line Insulation 500 Linear Feet Chalk Board Mastic 500 Square Feet Interior Door Caulk 202 Door Frames Sink Mastic 7 Sinks Exterior Roof Flashing Mastic and Curbing Mastic – 100 Square Feet Exterior Window/Door Caulk - 2 Front Entry Store Fronts Exterior Window Glazing - South Tower Windows PCB Storefront Caulk - 2 Exterior Front Entry Store Fronts PCB Storefront Caulk – 4 Exterior Rear Door Complexes PCB Window Caulk – South Tower Windows PCB Vent Caulk – 6 Exterior Vents PCB Door Caulk – 202 Interior Doors PCB Block Walls - 50,000 Square Feet PCB Duct Insulation – 7,500 Square Feet

1.03 ACM PRODUCTS TO BE REMOVED

- A. Interior Full Negative Pressure Enclosure.
 - 1. Spray asbestos-containing materials with a fine mist of amended water prior to removal procedures. Do not over saturate to cause excess pooling. Mist asbestos-containing materials continuously during the removal process.
 - 2. Contractor shall carefully remove manageable sections of asbestoscontaining materials and place it directly into bags for disposal. Do not allow asbestos debris to accumulate on floor.
 - 3. Contractor shall continue misting asbestos-containing materials with amended water throughout the removal process.
 - 4. Where asbestos-containing spray-applied ceiling texture is removed, contractor remove ductwork, fixtures, conduit, etc. to allow access to materials for complete removal.
 - 5. Demolition debris created to access asbestos-containing pipe insulation in chases shall be disposed of as asbestos-contaminated debris.
 - 6. Carpet/laminate with asbestos-containing floor tile mastic adhered shall be disposed of as asbestos-contaminated material.
 - 7. Contractor shall use a low to no odor solvent to remove asbestoscontaining floor tile mastic
 - 8. Clean work area as required by section 01711.
- B. Asbestos-Containing Thermal System Insulation (Glovebag Removal)
 - 1. Prior to start of work, the contractor shall regulate the work area with barrier tape and post asbestos signs in each appropriate language as per the OSHA 29 CFR 1926.1101 standard.
 - 2. Place 6 mil polyethylene drop cloth beneath pipes scheduled for abatement.
 - 3. Use two people for glovebag operations. One shall remove the insulation, the other operate the water sprayer.
 - 4. Secure glovebag air tight to pipe insulation with tools and wand inside glovebag. Spray pipe insulation with mist of amended water. Allow amended water to saturate material to substrate. Cut bands holding preformed pipe insulation, slit jackets at seams, remove insulation and

hand place in glovebag. Take care not to puncture the bag while cutting the insulation.

- 5. After removal of insulation, brush and wet clean pipe to remove residual material. Continue wet cleaning until surfaces are free of visible material.
- 6. Spray all tools with water inside the bag and place back in pouch. Duct tape visible ends of remaining pipe insulation.
- 7. Spray the inside of the glovebag with amended water and remove the watering wand, taping the water sleeve closed.
- 8. Collapse the glovebag with HEPA vacuum, gooseneck glovebag with duct tape and cut glovebag away from pipe.
- 9. Wet lag any exposed pipe insulation.
- C. Nonfriable, Nonregulated Removal of Door Caulking, Window Glazing, Wall Glue and Roof Flashing Mastic
 - 1. Asbestos abatement contractor shall isolate the work area utilizing appropriate barrier tape and signage.
 - 2. Contractor shall install 6-mil polyethylene sheeting on ground at the foundation of the structure and interior floor. Drop cloth sheeting shall cover a sufficient area to keep debris from window removal from coming in contact with the soil or interior floors.
 - 3. Remove materials using manual tools and wet methods.
 - 4. Following removal, asbestos abatement contractor shall immediately wrap and label doors and waste for appropriate disposal.
 - 5. Contractor shall clean work areas in preparation for final visual inspection.

DISPOSAL OF ASBESTOS-CONTAINING WASTE MATERIAL

1.01 GENERAL

- A. All asbestos materials and miscellaneous asbestos contaminated debris shall be properly sealed and protected, and the loadout vehicle/dumpster shall be locked, while located on the facility site and then transported to a predesignated disposal site in accordance with 40 CFR 61.150 and DOT 49 CFR Parts 100-399.
- B. An enclosed vehicle will be used to haul waste material to the disposal site. No rental vehicles or trailers shall be used. Vehicle selection, vehicle covers and work practices shall assure that no asbestos becomes airborne during the loading, transport and unloading activity, and that material is placed in the waste site without breaking any seals.
- C. Waste disposal polyethylene bags (6 mil) and containers, non-porous (steel/plastic) drums or equivalent, with labels, appropriate for storing asbestos waste during transportation to the disposal site shall be used. In addition to the OSHA labeling requirements, all containers shall be labeled with the name of the waste generator and the location at which the waste was generated.
- D. The contractor shall transport the containers and bags of waste material to the approved waste disposal site. The sealed plastic bags shall be placed into the burial site unless the bags have been broken or damaged. Upon the landfill's approval damaged bags shall be left in the non-porous containers and the entire contaminated package shall be buried. Uncontaminated containers may be reused.
- E. Workers loading and unloading the asbestos will wear respirators and disposable clothing when handling material. Asbestos warning signs shall be posted during loading and unloading of asbestos waste.
- F. The contractor shall use the HHCU's Waste Shipment Record for disposal records as per 40 CFR 61.150 and distribute a copy of all waste shipment records to the designer and the HHCU after the completion of the project.

APPENDIX A

PREWORK ASBESTOS INSPECTION CHECKLIST

Project N	Name:			
Project I	D Number:			
Date of I	nspection:	Pass:	Fail:	
DOCUM	ENTS		YES	N
2) A 3) A 4) A 5) V 6) S 7) C	Asbestos Removal Permit/NE Accreditation Documents for Asbestos Plans and Specifica Air Monitoring Data Vaste Shipment Records Sign-in Sheets and Bound Bo Calibration Record for Grade tems listed in Section 01043	Workers & Supervisors ations ook for Comments "D" Air		
PPE SU	PPLIES			
2) F	Tyvek Clothing Rubber Boots Respirators with HEPA Filters	3		
CLEAN	ROOM			
2) E 3) F 4) A 5) E	Entry Curtains Emergency Phone Numbers First Aid Kit Asbestos Signs Decontamination Procedures Fire Extinguisher			
SHOWE	RROOM			
2) H 3) S 4) V 5) E	Polyethlene Curtains lot/Cold Water & Operationa Soap & Towels Vaste Water Filter Pump Ope Extra Five Micron Size Filters Filtered Waste Water to Sanit	erational		

Α.

В.

C.

D.

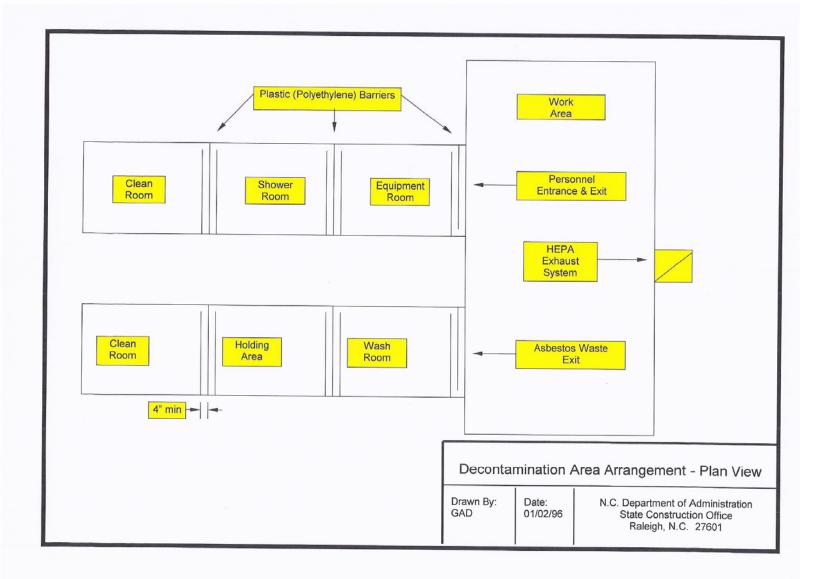
E.	WORK AREA	YES	NO
	 Removable Items Out of Area Non-removable Items Protected Critical Barriers Installed Polyethlene Curtains Polyethlene on Walls/Floors as Specified HVAC off Air Filtration Devices in Place and Operational Air Exhausted to Outside Electricity Locked and Tagged Out Temporary Power Installed with GFCI Fire Extinguishers Emergency and Fire Exits Marked Audible Alarms Operational Toilet Available 		
F.	EQUIPMENT		
	 Safety Equipment HEPA Vacuums Waste Disposal Bags Airless Sprayer with Water Source Cleaning Equipment Glove Bags Emergency Power Generator (if required) Temporary Lighting 		
G.	OTHER		
	1)		

Asbestos Design Consultant

Asbestos Contractor's Representative

Date

Date



North Carolina State University

TECHNICAL SPECIFICATIONS FOR POLYCHLORINATED BIPHENYLS (PCB) BULK PRODUCT REMOVAL

MANN HALL



For Construction November 13, 2024 MATRIX HEALTH & SAFETY CONSULTANTS, LLC. GREGG E. HEPPERT

North Carolina State University Mann Hall Renovation Raleigh, North Carolina

TECHNICAL SPECIFICATIONS FOR POLYCHLORINATED BIPHENYLS (PCB) BULK PRODUCT REMOVAL North Carolina State University - Mann Hall Complete Renovation Raleigh, North Carolina

Summary

This project consists of the removal and disposal of polychlorinated biphenyl (PCB)containing interior door caulking, duct mastic on fiberglass (interior and exterior of duct), exterior door caulking, exterior storefront caulking, exterior tower window caulking, exterior vent caulking, and block filler coating/paint as part of the Mann Hall complete renovation.

Disturbance or dislocation of PCB containing caulking materials may cause a health hazard to workers and building occupants. The remediation contractor shall inform all workers, supervisory personnel, subcontractors and consultants at the job site of the hazard and proper work procedures which must be followed.

Where remediation contractors, including supervisory personnel, subcontractors, or consultants may encounter, disturb, or otherwise function in the immediate vicinity of PCB containing caulking materials, appropriate measures shall be taken to protect all building occupants from the hazard of exposure. Such measures shall include the procedures and methods described herein, regulations of the US Occupational Safety & Health Administration (OSHA), US Environmental Protection Agency (EPA), and the State of North Carolina.

PCB Summary

Sample	Material	General Location	PCB Quantity
Number	Description		Mg/kg (ppm)
MH-1	Exterior Door	South and West	180,000
	Caulk		(Aroclor-1254)
	Bulk Product		
	Waste		
MH-6	Exterior	North	47,000
	Storefront Caulk		(Aroclor-1254)
	Bulk Product		
	Waste		
	Storefront Caulk		
	is also an		
	asbestos-		
	containing		
	material		

PCB SURVEY RESULTS (Refer to Attached Report Dated September 7, 2021)

Method EPA SW 846 8082A

Bold type Indicates Hazardous Material According to EPA (> 50 ppm)

PCB SURVEY RESULTS (Refer to attached PCB Lab Reports for samples collected on October 8, 2024)

			260
			(Aroclor-1268)
MH-4,5,б	Interior Block	Throughout Building	0.45-6.0
	Filler/Paint on Cinderblock and		(Aroclor-1248)
	Plaster		0.84-9.2
	Plaster		(Aroclor-1254)
	PCB-Containing		(AIOCIOI-1254)
	rep concarning		0.090-1.2
			(Aroclor-1260
MH-7	Interior Tan Door	Throughout Building	940
	Caulk		(Aroclor-1248)
	PCB Bulk Product		220
	Waste		(Aroclor-1254)
	Also Contains Asbestos		
MH-8	Interior Gray	Throughout Building	560
MH-0	Door Caulk	infoughout building	(Aroclor-1248)
	boor cault		
	PCB Bulk Product		140
	Waste		(Aroclor-1254)
MH-9	Interior White	Throughout Building	32
	Door Caulk		(Aroclor-1248)
	PCB Bulk Product		21
NT 10	Waste		(Aroclor-1254)
MH-10	Waste Interior	Throughout Building	(Aroclor-1254) 0.64
MH-10	Waste Interior Internally Line	Throughout Building	(Aroclor-1254)
MH-10	Waste Interior	Throughout Building	(Aroclor-1254) 0.64 (Aroclor-1248)
MH-10	Waste Interior Internally Line Duct Mastic/Glue	Throughout Building	(Aroclor-1254) 0.64 (Aroclor-1248) 2.7
	Waste Interior Internally Line Duct Mastic/Glue PCB-Containing		(Aroclor-1254) 0.64 (Aroclor-1248) 2.7 (Aroclor-1254)
MH-10 MH-11	WasteInteriorInternally LineDuct Mastic/GluePCB-ContainingExterior Window	Exterior - South	(Aroclor-1254) 0.64 (Aroclor-1248) 2.7 (Aroclor-1254) 15,000
	Waste Interior Internally Line Duct Mastic/Glue PCB-Containing		(Aroclor-1254) 0.64 (Aroclor-1248) 2.7 (Aroclor-1254)
	WasteInteriorInternally LineDuct Mastic/GluePCB-ContainingExterior Window	Exterior - South	(Aroclor-1254) 0.64 (Aroclor-1248) 2.7 (Aroclor-1254) 15,000

October 8, 4			
Sample	Material	General Location	PCB Quantity
Number	Description		Mg/kg (ppm)
MH-12	Exterior Window	Exterior - South	1.7
	Glazing	Tower Metal Windows	(Aroclor-1248)
	PCB-Containing		7.5
			(Aroclor-1254)
	Also Contains		
	Asbestos	-	
MH-13	Exterior Vent	Exterior - Lower	34,000
	Caulk	Roof Courtyard East	(Aroclor-1254)
	PCB Bulk Product	Facing Wall	
	Waste		
	waste		
MH-14	Exterior Brick	Exterior - Southeast	2.3
	Adjacent to Door	Door, Left	(Aroclor-1248)
	Caulking	,	(,
	_		23
	PCB Remediation		(Aroclor-1254)
	Waste		
MH-15	Exterior Brick	Exterior - Southeast	2.9
	Adjacent to Door	Door, Right	(Aroclor-1248)
	Caulking		
			6.2
	PCB Remediation		(Aroclor-1254)
	Waste		

PCB SURVEY RESULTS (Refer to Additional PCB Lab Reports from samples collected October 8, 2024)

PCB-containing caulk and glue, for example, are considered *PCB bulk product* waste if the concentration of PCBs in the caulk or glue is greater than or equal to (\geq) 50 parts per million (ppm). PCB bulk product waste, even at concentrations of PCBs greater than 50 ppm, can be disposed in a non-hazardous solid waste facility, as long as this disposal is permitted by that facility and approval is granted. Substrate PCB Remediation waste materials, such as brick, cinderblock or plaster, located adjacent to PCB bulk product, may also be disposed of as PCB bulk product waste, as long as the substrates are removed with the caulk and glue at the time of the project.

Sample Number	Wipe Description	General Location	PCB Quantity ug/100cm2 (ppm)
MHW-1	Interior of Supply Duct Non-Insulation	First Floor (Basement) Pit	.45 (Aroclor-1248) .62 (Aroclor-1254) .24 (Aroclor-1260)
МНW-2	Interior of Supply Duct Non-Insulation	Room 306	.3 (Aroclor-1248) 1.2 (Aroclor-1254) .55 (Aroclor-1260)
МНЖ-3	Interior of Supply Duct Internally Lined	Room 306	.15 (Aroclor-1254) .094 (Aroclor-1260)
MHW-4	Interior of Supply Duct Non-Insulation	Room 207	1.4 (Aroclor-1248) .38 (Aroclor-1254)

PCB WIPE RESULTS (Refer to Additional PCB Lab Reports from samples collected October 8, 2024)

The laboratory results indicated that all wipes collected inside the duct work were <10 ug/100cm2, which is below the clearance standard for this project.

Scope of Work

These specifications are to be used in conjunction with any drawings, specifications or supplemental specifications for this project. Copies are to be maintained at the job site at all times.

Asbestos abatement and PCB removal shall be performed concurrently by North Carolina Accredited supervisors and workers.

The remediation contractor shall verify all job conditions and all material quantities prior to bid submission. All quantities listed by the designer are

North Carolina State University Mann Hall Renovation Raleigh, North Carolina

approximations only. The remediation contractor is responsible for confirming all quantities of PCB material prior to bidding.

The remediation contractor shall maintain the building envelope in a watertight and weather tight condition at all times.

Scope of Work

The scope of work consists of the removal and disposal of 4 exterior metal door complexes, 2 front storefront door/window complexes, 6 exterior vents, 24 exterior window complexes at exterior south tower, 202 interior door frames, 50,000 sf of block filler on interior walls and 7,500 sf of glue/mastic on duct insulation with polychlorinated biphenyl (PCB's). Please note that the storefront caulking, interior door caulking and window glazing is asbestoscontaining. Caulking may be removed and disposed of intact by removing the entire door or window complex and surround substrates with caulk attached. If surrounding substrates are not scheduled for demolition, caulking shall be removed from adjacent brick and concrete (inside and outside of building) until no visible debris is present. Metal door and window framing shall be cleaned with appropriate detergent and organic solvent prior to disposal or disposed of with the caulk attached.

If the brick/concrete surrounding door, window, and vent openings are not scheduled for demolition, the openings shall be cleaned with appropriate detergent and organic solvent. Once cleaned, the opening shall be sealed with two coats of waterproof epoxy covering the face of the openings to serve as an encapsulant over the porous concrete and brick.

The scope of work also includes the removal and disposal of exterior duct insulation with PBC mastic/glue found throughout the building.

The scope of work also includes the demolition of cinderblock and plaster walls with PCB block filler/paint.

Asbestos abatement and PCB removal operations will be performed together within full negative pressure containments.

The remediation contractor will package waste in approved containers and dispose of materials in a solid waste facility that with accept PCB bulk product waste.

Minimum Work Requirements

1. All work shall be performed in accordance with all applicable federal, state, and local regulations.

2. The remediation contractor shall be a licensed general remediation contractor in either the specialty interior, building unclassified or asbestos categories by the North Carolina Licensing Board of General Remediation contractors and limited for the bid amount.

3. The remediation contractor shall furnish and is responsible for all costs including, but not limited to: permit fees, containment preparation, labor, materials, services, insurance, bonding, and equipment necessary to carry out the abatement operations and disposal of all PCB containing material in

accordance with the specifications, the EPA and OSHA regulations, and any applicable state and local government regulations.

4. All supervisors and workers shall have experience in the abatement of PCB containing materials and decontamination of PCB's in order to achieve clearance. Hazard Communication training for PCBs that, at a minimum, meets the requirements of 29 CFR 1910.1200 and the importance of minimizing worker exposure (both inhalation and skin exposure).

All workers and supervisors shall be accredited by the North Carolina Health Hazards Control Unit (HHCU). A competent person, as defined by OSHA asbestos standard 29 CFR 1926.1101, shall be on-site at all times during asbestos abatement.

5. The doors contain lead ranging from 0.1 mg/cm2 to 0.7 mg/cm2. Personnel performing renovation activities that disturb the painted surfaces or leaded components that contain any quantity of lead should comply with all current OSHA regulations (OSHA Lead in Construction Standard 29 CFR 1926.62) in order to minimize employee exposure to lead.

6. The remediation contractor shall be responsible for all costs associated with employee monitoring to meet OSHA standards.

7. The remediation contractor shall have at least one employee on the job site in either a foreman or supervisor's position who is bilingual in the appropriate languages when employing workers who do not speak fluent English.

8. The remediation contractor is responsible for the behavior of workers within his employment. If at any time during the contracted work, any of his employees are judged to exhibit behavior unfitting for the area or judged to be a nuisance by the owner or designer, the remediation contractor shall remove them immediately from the project.

9. The remediation contractor shall be responsible for compliance with the following concerning employee behavior:

a. Under no circumstances is alcohol, drugs or any other type of controlled substances permitted on state property.

b. All workers are restricted to the construction project site only.

c. All vehicles must be parked in areas prearranged with the owner.

d. All workers must conform to the following basic dress code when in public areas of the project confines: long pants, shirts, no tank tops, no shorts, no bare backs.

e. The remediation contractor is responsible for disposal of all trash brought on state property by his employees, including drink cans, bottles or other food containers and wrappers.

10. Failure to adhere to these rules could result in criminal prosecution and/or removal from the State property.

11. PREBID

- 1. A pre-bid conference will be held by the owner in conjunction with the asbestos abatement project.
- 2. The designer will review the plans and specifications and present required techniques and safeguards for the removal of the PCB caulking.
- Any minutes, new points or clarifications raised during the meeting will be issued by the designer prior to bids.

12. PRE-JOB SUBMITTALS

A. Submit three complete, bound sets of pre-job submittals to the designer at least 10 days prior to start of work. Work is prohibited until submittal package has been reviewed and approved by designer. A copy of the approved submittals shall be kept in a three-ring binder (project log) by the remediation contractor at the project site in the clean room or in the on-site office of the remediation contractor.

1. Employee List: Provide copies of lists of supervisors and workers, along with their PCB work experience and PCB HazCom training to be utilized on the project. Provide copies of lists of North Carolina Accredited supervisors and workers, along with their accreditation, to be utilized on the project.

2. Medical: Include individually signed and notarized forms by each worker to be utilized on the project documenting that each is actively involved in a company employee medical surveillance program.

3. Respirator Training: Copies of most recent fit testing records, individually signed for each worker to be utilized on the project.

4. Submit plan detailing measures that will be taken to re-route pedestrian traffic during door removal to ensure the safety of students, faculty and visitors.

13. POST-JOB SUBMITTALS

A. Submit three complete, bound sets of post-job submittals to the designer following the final completion of the work. Requests for final payment will not be approved until the submittal package has been reviewed and approved by the designer.

1. Affidavits: Remediation contractor's affidavit of payment of debts and claims, affidavit of release of liens, and consent of surety company to final payment.

2. Daily Log: A notarized copy of all daily logs showing the following: name, date, entering and leaving time, company or agency represented, reason for entry for all persons entering the work area, employee's daily air monitoring data as required by the OSHA standard and written comments by inspectors, industrial hygienists, designers and visitors.

North Carolina State University Mann Hall Renovation Raleigh, North Carolina

- 3. Permits: Provide copies of approval of a waste disposal site in compliance with 40 CFR 61.154.
- 4. Special Reports: All documents generated under Section 01043.1.06.

14. The remediation contractor shall be trained in the proper use of PPE during PCB removal and cleanup operations. Remediation contractor shall wear appropriate PPE during All PCB containing caulk removal activities, including but not limited to chemical resistant gloves, chemical resistant full body protective coveralls and proper respiratory protection for the hazards to be encountered.

15. Remediation contractor shall provide a Health and Safety Plan specific to the work activities. All workers will follow applicable Federal and State regulations regarding work activities, including but not limited to OSHA regulations (PCB personnel air monitoring), respiratory protection, fall protection standards, ladder safety, personal protective equipment, etc.

16. Records and documents per 40CFR 761 will be generated and maintained at one location and made available to the EPA, Designer or Owner upon request.

WORK AREA PREPERATION

1. Work shall be performed inside full containments during asbestos abatement activities. For exterior work, the remediation contractor shall isolate each door, window and vent with 2 layers of 6 mil polyethylene sheeting secured in place. The remediation contractor shall isolate the work area with appropriate barrier tape and signage. The remediation contractor shall install 1 layer of 6-mil polyethylene sheeting on floors/ground below the component scheduled for removal to prevent contamination of interior building surfaces and to collect any debris that may fall during removal operations.

PCB CAULK REMOVAL

1. Abatement remediation contractor shall remove door units, window units, duct insulation and vents in their entirety from the rough opening and remove surrounding brick/concrete substrates, when feasible and only after approval by the owner. If brick/concrete substrates are scheduled to remain, thoroughly scrape all caulk/sealant using manual tools from the rough building opening substrates. PCB's shall be wetted using a low-pressure sprayer, using amended water with a wetting agent/surfactant containing fifty percent polyoxyethylene ether and fifty percent polyoxyethylene ester, or equivalent, mixed one ounce to five gallons of water. High efficiency particulate air (HEPA) filtered vacuums shall be used to clean dust and debris during PCB abatement operations.

2. Following removal of caulking from the adjacent concrete and brick substrates, clean flooring using a double wash/rinse using an appropriate solvent. The remediation contractor shall take all precautions necessary to contain runoff resulting from cleaning and to properly dispose of wastes generated during cleaning.

3. A DOT approved container shall be staged for the collection of PCB bulk product and associated wastes generated during the work activities in accordance

with 40CFR 761.65. Remediation contractor shall properly label and mark waste container in accordance with 40CFR 761.40.

4. Remediation contractor shall contact industrial hygiene firm for scheduling the final visual inspection.

FINAL CLEARANCE

1. A final visual inspection shall be conducted by the industrial hygiene firm prior to disposal of door frames, window frames, duct mastic, vent mastic and sealing of rough openings with epoxy.

2. Wipe clearance sampling will be conducted on randomly selected floors following successful visual inspection and adequate drying times. Wipes will be collected from the work areas per EPA 40 CFR 761 Subpart O and Subpart M and extracted /analyzed using EPA Methods SW-846 3550C/8082A.

The clearance criteria for floors will be <10 ug/100cm2. The subject area is considered sufficiently decontaminated if conducted in accordance with 40 CFR 761.79. If the standard of <10 μ g/100 cm2 is not met for all of the wipe samples, additional decontamination procedures must be performed within the entire subject area and additional wipe samples must be collected. These procedures will be repeated until the <10 μ g/100 cm2 standard has been achieved. Fees for failed wipe tests are the responsibility of the remediation contractor.

DISPOSAL OF PCB BULK PRODUCT WASTE MATERIAL AND ASBESTOS-CONTAINING CAULKING

1. All PCB containing caulking, caulking debris and associated wastes (suits, cleaning supplies, etc.) and asbestos-containing caulking will be designated for disposal as PCB Bulk Product Waste in accordance with 40CFR 761.62 of TSCA.

2. All containers will be properly labeled and marked in accordance with 40CFR 761.40. Containers shall also be marked with asbestos labels. All regulated waste containers will be stored in a secure area on-site until transfer to an approved solid waste facility that will accept both asbestos and PCB bulk waste.

3. The remediation contractor shall be responsible for all packaging, labeling and record keeping associated with PCB/Asbestos waste in accordance with all federal, state and local regulations.

4. Remediation contractor shall assure that disposal of PCB bulk waste is at a facility approved to accept such waste and shall provide to the Owner and designer a tracking/manifest form signed by the landfill's owner.

Matrix Health & Safety Consultants, LLC

CHEECE / trapent

Gregg E. Heppert Project Principal

North Carolina State University Mann Hall Renovation Raleigh, North Carolina



Storefront door complex with asbestos-containing and PCB containing caulk



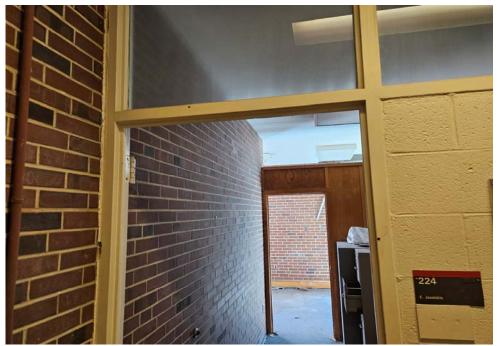
Storefront door complex with asbestos-containing and PCB containing caulk



Example of exterior of door with PCB containing caulk



Example of duct with PCB containing mastic/glue



Example of door frame with PCB's and asbestos-containing caulk

North Carolina State University Mann Hall Renovation Raleigh, North Carolina



Example of window frames with PCB's and asbestos-containing glazing



Example of exterior vent with PCB's

North Carolina State University Mann Hall Renovation Raleigh, North Carolina



Example of exterior vents with PCB's



Example of cinderblock walls with PCB's <50 PPM

North Carolina State University Mann Hall Renovation Raleigh, North Carolina



Example of internally lined duct with PCB's <50 PPM



October 14, 2024

Matrix Health & Safety Consultants 2900 Yonkers Road Raleigh, NC 27604

CLIENT PROJECT:Mann Hall NCSUCEI LAB CODE:B2419771

CEI

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on October 9, 2024. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600/R-93/116: *Method for the Determination of Asbestos in Bulk Building Materials* and EPA 40 CFR Appendix E to Subpart E of Part 763: *Interim Method of the Determination of Asbestos in Bulk Insulation Samples.*

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600/R-93/116 Method and EPA 40 CFR Appendix E to Subpart E of Part 763 is <1% asbestos as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Man Sao De

Tianbao Bai, Ph.D., CIH Laboratory Director



_	BESTOS ANALYTICAL REPORT /: Polarized Light Microscopy
	Prepared for
Mat	rix Health & Safety Consultants
LIENT PROJECT	Mann Hall NCSU
B CODE:	B2419771
EST METHOD:	EPA 600 / R-93 / 116 and EPA 40 CFR Appendix E Subpart E of Part 763
EPORT DATE:	10/14/24
DTAL SAMPLES	ANALYZED: 15
SAMPLES >1% A	ASBESTOS: 4



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Mann Hall NCSU

LAB CODE: B2419771

METHOD: EPA 600 / R-93 / 116 and EPA 40 CFR Appendix E to Subpart E of Part 763

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
MHA-1	Layer 1	B2419771.01	Tan	Duct Mastic	None Detected
	Layer 2	B2419771.01	Yellow	Insulation	None Detected
MHA-2	Layer 1	B2419771.02	Tan	Duct Mastic	None Detected
	Layer 2	B2419771.02	Yellow	Insulation	None Detected
MHA-3	Layer 1	B2419771.03	White,Tan	Door Caulk	None Detected
	Layer 2	B2419771.03	Gray	Door Caulk	Chrysotile 2%
MHA-4		B2419771.04	Off-white,Gray	Door Caulk	Chrysotile 2%
MHA-5	Layer 1	B2419771.05	Tan	Duct Mastic	None Detected
	Layer 2	B2419771.05	Yellow	Insulation	None Detected
MHA-6		B2419771.06	Dark Red,Gray	Window Caulking	None Detected
MHA-7		B2419771.07	Dark Red,Gray	Window Caulking	None Detected
MHA-8		B2419771.08	Dark Red,Gray	Window Glazing	Chrysotile 2%
MHA-9		B2419771.09	Dark Red,Gray	Window Glazing	Chrysotile 2%
MHA-10		B2419771.10	Gray	Vent Caulk	None Detected
MHA-11		B2419771.11	Gray	Vent Caulk	None Detected
MHA-12		B2419771.12	Tan,Gray	Terrazzo Floor	None Detected
MHA-13		B2419771.13	Tan,Gray	Terrazzo Floor	None Detected
MHA-14		B2419771.14	White,Gray	Terrazzo Floor	None Detected
MHA-15		B2419771.15	White,Gray	Terrazzo Floor	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

CEI

Client: Matrix Health & Safety Consultants 2900 Yonkers Road Raleigh, NC 27604
 Lab Code:
 B2419771

 Date Received:
 10-09-24

 Date Analyzed:
 10-14-24

 Date Reported:
 10-14-24

Project: Mann Hall NCSU

ASBESTOS	BULK PLM, EP	A 600/R-93/116 ME	THOD and EPA 40	CFR App	endix E Subp	part E to Part 763
Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS Fibrous		NENTS ibrous	ASBESTOS %
MHA-1 Layer 1 B2419771.01	Duct Mastic	Homogeneous Tan Non-fibrous Bound			Mastic	None Detected
Layer 2 B2419771.01	Insulation	Homogeneous Yellow Fibrous Loosely Bound	100% Fiberglass			None Detected
MHA-2 Layer 1 B2419771.02	Duct Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
Layer 2 B2419771.02	Insulation	Homogeneous Yellow Fibrous Loosely Bound	100% Fiberglass			None Detected
MHA-3 Layer 1 B2419771.03	Door Caulk	Heterogeneous White,Tan Non-fibrous Bound		95% 5%	Caulk Paint	None Detected
Layer 2 B2419771.03	Door Caulk	Homogeneous Gray Non-fibrous Bound		98%	Caulk	2% Chrysotile
MHA-4 B2419771.04	Door Caulk	Heterogeneous Off-white,Gray Non-fibrous Bound		93% 5%	Caulk Paint	2% Chrysotile



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

CEI

Client: Matrix Health & Safety Consultants 2900 Yonkers Road Raleigh, NC 27604

 Lab Code:
 B2419771

 Date Received:
 10-09-24

 Date Analyzed:
 10-14-24

 Date Reported:
 10-14-24

Project: Mann Hall NCSU

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS Fibrous		NENTS ibrous	ASBESTOS %
MHA-5 Layer 1 B2419771.05	Duct Mastic	Homogeneous Tan Non-fibrous Bound		100%	Mastic	None Detected
Layer 2 B2419771.05	Insulation	Homogeneous Yellow Fibrous Loosely Bound	100% Fiberglass			None Detected
MHA-6 B2419771.06	Window Caulking	Heterogeneous Dark Red,Gray Non-fibrous Bound		95% 5%	Caulk Paint	None Detected
MHA-7 B2419771.07	Window Caulking	Heterogeneous Dark Red,Gray Non-fibrous Bound		95% 5%	Caulk Paint	None Detected
MHA-8 B2419771.08	Window Glazing	Heterogeneous Dark Red,Gray Non-fibrous Bound		93% 5%	Binder Paint	2% Chrysotile
MHA-9 B2419771.09	Window Glazing	Heterogeneous Dark Red,Gray Non-fibrous Bound		93% 5%	Binder Paint	2% Chrysotile
MHA-10 B2419771.10	Vent Caulk	Homogeneous Gray Non-fibrous Bound		100%	Caulk	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

CEI

Client: Matrix Health & Safety Consultants 2900 Yonkers Road Raleigh, NC 27604

 Lab Code:
 B2419771

 Date Received:
 10-09-24

 Date Analyzed:
 10-14-24

 Date Reported:
 10-14-24

Project: Mann Hall NCSU

ASBESTOS BULK PLM, EPA 600/R-93/116 METHOD and EPA 40 CFR Appendix E Subpart E to Part 763

Client ID	Lab	Lab	NON-ASBES	тоѕ сомро	NENTS	ASBESTOS
Lab ID	Description	Attributes	Fibrous	Non-F	ibrous	%
MHA-11 B2419771.11	Vent Caulk	Homogeneous Gray Non-fibrous Bound		100%	Caulk	None Detected
MHA-12 B2419771.12	Terrazzo Floor	Heterogeneous Tan,Gray Non-fibrous Bound		60% 35% 5%	Silicates Binder Resin	None Detected
MHA-13 B2419771.13	Terrazzo Floor	Heterogeneous Tan,Gray Non-fibrous Bound		60% 35% 5%	Silicates Binder Resin	None Detected
MHA-14 B2419771.14	Terrazzo Floor	Heterogeneous White,Gray Non-fibrous Bound		65% 35%	Silicates Binder	None Detected
MHA-15 B2419771.15	Terrazzo Floor	Heterogeneous White,Gray Non-fibrous Bound		65% 35%	Silicates Binder	None Detected



CE

LEGEND:	Non-Anth	= Non-Asbestiform Anthophyllite
	Non-Trem	= Non-Asbestiform Tremolite
	Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R-93 / 116 and EPA 40 CFR Appendix E to Subpart E of Part 763

REPORTING LIMIT FOR PLM: 1% by calibrated visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1%

Due to the limitations of the EPA 600/R-93/116 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:

APPROVED BY:

Nicholas Moore

Tianbao Bai, Ph.D., CIH Laboratory Director





CHAIN OF CUSTODY

B2419771

CEI

730 SE Maynard Road, Cary, NC 27511 Tel: 866-481-1412; Fax: 919-481-1442 LAB USE ONLY:

医视系型

CEI Lab Code:

CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION				
CEI CLIENT #:	Job Contact: Gregg E. Heppert				
Company: Matrix Health & Safety Consultants, LLC	Email / Tel: 919.868.2154				
Address: 2900 Yonker's Road	Project Name: MANN HAM NOSU				
Raleigh, NC 27604	Project ID#:				
Email: gregg@matrixhsc.com	PO #:				
Tel: 919.833.25250 Fax:	STATE SAMPLES COLLECTED IN: NC				

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

	"是要要想得"	TURN AROUND TIME						
ASBESTOS	METHOD	4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY	
PLM BULK	EPA 600	Q	Û	X	Ð	(X)		
PLM POINT COUNT (400)	EPA 600					4		
PLM POINT COUNT (1000)	EPA 600							
PLM GRAV w POINT COUNT	EPA 600							
PLM BULK	CARB 435	and the second						
PCMAIR	NIOSH 7400							
TEM AIR	EPA AHERA							
TEM AIR	NIOSH 7402							
TEM AIR (PCME)	ISO 10312							
TEM AIR	ASTM 6281-15							
TEM BULK	CHATFIELD							
TEM DUST WIPE	ASTM D6480-05 (2010)							
TEM DUST MICROVAC	ASTM D5755-09 (2014)							
TEM SOIL	ASTM D7521-16							
TEM VERMICULITE	CINCINNATI METHOD							
TEM QUALITTATIVE	IN-HOUSE METHOD							

, . U(- /					
Date/Time	Received By:				
10/9/24	BuB	1019/24	11:20		
		Date/Time Received By:	Date/Time Received By: Date/ Lo/G/2/24 Reserved By: Date/		

Samples will be disposed of 30 days after analysis

Page ____ of ____ Version: CCOC.01.18.1/2.LD

Walkin



SAMPLING FORM

CEI

COMPANY CONTACT INFORMATION					
Company: Matrix Health & Safety Consultants, LLC	Job Contact: Gregg E. Heppert				
Project Name: MANN HAN - Nora					
Project ID #:	Tel: 919.868.2154				

and the second		VOLUME/	张家子	, 生生生水
SAMPLE ID#	DESCRIPTION / LOCATION	AREA		EST
MHA-1	External DACT Mastic		PLM X	TEM
m#4-2	11 17		PLM 🟒	TEM
mHA-3	INTERIOR DOOR Cault - South	boar wind	wPLM	TEM
MAA-4	li il	Complex	PLM 🔀	TEM
mHA-5	External Duct Master		PLM 🔁	TEM
mHA-6	Exterior upper window com	k	PLM 🔀	TEM
MHA-7	/.		PLM	TEM
MAA-3	Exterior Upper winkow Gt	nin	PLM 🔂	TEM
m(+A-9	μ μ	2	PLM 🔀	TEM
MHA-10	Exterior Vent Can	k	PLM	TEM
MHA-W	cl 11	-	PLM 💭	TEM
MHA-12	TETAZZO FLOOR - Basen	rel	PLM 📩	TEM
m(++-13	NI 11		PLM 📩	TEM
WilfA-14	TEREAZZO MOUN . Fi	SF Alra	PLM	TEM
wilth-15	μ	11	PLM 🚮	TEM
, , ,			PLM	TEM
			PLM	TEM



October 17, 2024

Gregg Heppert Matrix Health & Safety Consultants, LLC 2900 Yonkers Road Raleigh, NC 27604

Project Location: Raleigh, NC Client Job Number: Project Number: [none] Laboratory Work Order Number: 24J1726

Enclosed are results of analyses for samples as received by the laboratory on October 10, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karriem G. Marius Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	7
24J1726-01	7
24J1726-02	8
24J1726-03	9
24J1726-04	10
24J1726-05	11
24J1726-06	12
24J1726-07	13
24J1726-08	14
24J1726-09	15
24J1726-10	16
24J1726-11	17
24J1726-12	18
24J1726-13	19
24J1726-14	20
24J1726-15	21
Sample Preparation Information	22
QC Data	23
Polychlorinated Biphenyls By GC/ECD	23
B389208	23
B389248	24
B389358	25
B389477	26

Table of Contents (continued)

Dual Column RPD Report	28
Flag/Qualifier Summary	53
Certifications	54
Chain of Custody/Sample Receipt	56

Matrix Health & Safety Consultants, LLC 2900 Yonkers Road Raleigh, NC 27604 ATTN: Gregg Heppert

REPORT DATE: 10/17/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

24J1726 WORK ORDER NUMBER:

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MH-1 External Duct Mastic 2nd Floor	24J1726-01	Product/Solid		SW-846 8082A	
MH-2 External Duct Mastic 3rd Floor	24J1726-02	Product/Solid		SW-846 8082A	
MH-3 External Duct Mastic 4th Floor	24J1726-03	Product/Solid		SW-846 8082A	
MH-4 Block Filler 2nd Floor	24J1726-04	Product/Solid		SW-846 8082A	
MH-5 Block Filler 3rd Floor	24J1726-05	Product/Solid		SW-846 8082A	
MH-6 Block Filler 4th Floor	24J1726-06	Product/Solid		SW-846 8082A	
MH-7 Tan Door Caulk South (Sticky)	24J1726-07	Caulk		SW-846 8082A Modified	
MH-8 Gray Door Caulk 2nd & 4th	24J1726-08	Caulk		SW-846 8082A Modified	
MH-9 White Door Caulk 2nd	24J1726-09	Caulk		SW-846 8082A	
MH-10 Internal Duct Mastic Rm 306	24J1726-10	Product/Solid		SW-846 8082A	
MH-11 Exterior Window Caulk Upper	24J1726-11	Caulk		SW-846 8082A Modified	
MH-12 Exterior Window Glazing Upper	24J1726-12	Product/Solid		SW-846 8082A	
MH-13 Exterior Vent Caulk East	24J1726-13	Caulk		SW-846 8082A Modified	
MH-14 Brick at Rear Door Left	24J1726-14	Brick		SW-846 8082A	
MH-15 Brick at Rear Door Right	24J1726-15	Brick		SW-846 8082A	



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

MS-21

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016

B389248-MS1, B389248-MSD1

Aroclor-1016 [2C]

B389248-MS1, B389248-MSD1

Aroclor-1260

B389248-MS1, B389248-MSD1

Aroclor-1260 [2C]

B389248-MS1, B389248-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences. Analyte & Samples(s) Qualified:

Decachlorobiphenvl

24J1726-01[MH-1 External Duct Mastic 2nd Floor], 24J1726-02[MH-2 External Duct Mastic 3rd Floor], 24J1726-14[MH-14 Brick at Rear Door Left], B389248-MS1, B389248-MSD1

Decachlorobiphenyl [2C]

24J1726-01[MH-1 External Duct Mastic 2nd Floor], 24J1726-02[MH-2 External Duct Mastic 3rd Floor], 24J1726-14[MH-14 Brick at Rear Door Left], B389248-MS1, B389248-MSD1

Tetrachloro-m-xvlene

24J1726-01[MH-1 External Duct Mastic 2nd Floor], 24J1726-02[MH-2 External Duct Mastic 3rd Floor], 24J1726-14[MH-14 Brick at Rear Door Left], B389248-MS1,

B389248-MSD1

Tetrachloro-m-xylene [2C]

24J1726-01[MH-1 External Duct Mastic 2nd Floor], 24J1726-02[MH-2 External Duct Mastic 3rd Floor], 24J1726-14[MH-14 Brick at Rear Door Left], B389248-MS1, B389248-MSD1

SW-846 8082A Modified

Oualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences. Analyte & Samples(s) Qualified:

Decachlorobiphenyl

24J1726-07[MH-7 Tan Door Caulk South (Sticky)], 24J1726-11[MH-11 Exterior Window Caulk Upper], 24J1726-13[MH-13 Exterior Vent Caulk East]

Decachlorobiphenyl [2C]

24J1726-07[MH-7 Tan Door Caulk South (Sticky)], 24J1726-11[MH-11 Exterior Window Caulk Upper], 24J1726-13[MH-13 Exterior Vent Caulk East]

Tetrachloro-m-xylene

24J1726-07[MH-7 Tan Door Caulk South (Sticky)], 24J1726-11[MH-11 Exterior Window Caulk Upper], 24J1726-13[MH-13 Exterior Vent Caulk East]

Tetrachloro-m-xylene [2C]

24J1726-07[MH-7 Tan Door Caulk South (Sticky)], 24J1726-11[MH-11 Exterior Window Caulk Upper], 24J1726-13[MH-13 Exterior Vent Caulk East]



The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan S. Kelley

Meghan E. Kelley Reporting Specialist



Analyst

SFM

SFM

SFM

SFM

SFM SFM

SFM

SFM

SFM

10/16/24 12:27

Work Order: 24J1726

Project Location: Raleigh, NC Date Received: 10/10/2024

Field Sample #: MH-1 External Duct Mastic 2nd Floor Sampled: 10/8/2024 16:00

Sample Description:

*

Sample ID: 24J1726-01

Tetrachloro-m-xylene [2]

Sample ID: 24J1726-01										
Sample Matrix: Product/Solid										
			Poly	ychlorinated Biph	enyls By GC	/ECD				
								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	1
Aroclor-1016 [1]	ND	20	4.8	mg/Kg	200		SW-846 8082A	10/14/24	10/16/24 12:27	
Aroclor-1221 [1]	ND	20	9.0	mg/Kg	200		SW-846 8082A	10/14/24	10/16/24 12:27	
Aroclor-1232 [1]	ND	20	4.8	mg/Kg	200		SW-846 8082A	10/14/24	10/16/24 12:27	
Aroclor-1242 [1]	ND	20	5.4	mg/Kg	200		SW-846 8082A	10/14/24	10/16/24 12:27	
Aroclor-1248 [1]	27	20	4.7	mg/Kg	200		SW-846 8082A	10/14/24	10/16/24 12:27	
Aroclor-1254 [2]	57	20	7.4	mg/Kg	200		SW-846 8082A	10/14/24	10/16/24 12:27	
Aroclor-1260 [2]	94	20	5.2	mg/Kg	200		SW-846 8082A	10/14/24	10/16/24 12:27	
Aroclor-1262 [1]	ND	20	5.1	mg/Kg	200		SW-846 8082A	10/14/24	10/16/24 12:27	
Aroclor-1268 [2]	260	20	6.3	mg/Kg	200		SW-846 8082A	10/14/24	10/16/24 12:27	
Surrogates		% Reco	overy	Recovery Limits	8	Flag/Qual				_
Decachlorobiphenyl [1]			*	30-150		S-01			10/16/24 12:27	
Decachlorobiphenyl [2]			*	30-150		S-01			10/16/24 12:27	
Tetrachloro-m-xylene [1]			*	30-150		S-01			10/16/24 12:27	

30-150

S-01



Work Order: 24J1726

Project Location: Raleigh, NC Date Received: 10/10/2024

Field Sample #: MH-2 External Duct Mastic 3rd Floor

Sample ID: 24J1726-02

Sample Matrix: Product/Solid

r	Sampled:	10/8/2024	16:10

Sample Description:

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	3.5	0.87	mg/Kg	50		SW-846 8082A	10/14/24	10/16/24 9:59	SFM
Aroclor-1221 [1]	ND	3.5	1.6	mg/Kg	50		SW-846 8082A	10/14/24	10/16/24 9:59	SFM
Aroclor-1232 [1]	ND	3.5	0.87	mg/Kg	50		SW-846 8082A	10/14/24	10/16/24 9:59	SFM
Aroclor-1242 [1]	ND	3.5	0.97	mg/Kg	50		SW-846 8082A	10/14/24	10/16/24 9:59	SFM
Aroclor-1248 [1]	27	3.5	0.85	mg/Kg	50		SW-846 8082A	10/14/24	10/16/24 9:59	SFM
Aroclor-1254 [1]	30	3.5	1.1	mg/Kg	50		SW-846 8082A	10/14/24	10/16/24 9:59	SFM
Aroclor-1260 [2]	3.2	3.5	0.93	mg/Kg	50	J	SW-846 8082A	10/14/24	10/16/24 9:59	SFM
Aroclor-1262 [1]	ND	3.5	0.92	mg/Kg	50		SW-846 8082A	10/14/24	10/16/24 9:59	SFM
Aroclor-1268 [1]	ND	3.5	0.93	mg/Kg	50		SW-846 8082A	10/14/24	10/16/24 9:59	SFM
Surrogates		% Reco	overy	Recovery Limits	8	Flag/Qual				
Decachlorobiphenyl [1]			*	30-150		S-01			10/16/24 9:59	
Decachlorobiphenyl [2]			*	30-150		S-01			10/16/24 9:59	
Tetrachloro-m-xylene [1]			*	30-150		S-01			10/16/24 9:59	
Tetrachloro-m-xylene [2]			*	30-150		S-01			10/16/24 9:59	



Table of Contents

Work Order: 24J1726

Project Location: Raleigh, NC Date Received: 10/10/2024

Field Sample #: MH-3 External Duct Mastic 4th Floor

Sample ID: 24J1726-03

Sample Matrix: Product/Solid

Sampled:	10/8/2024	16:15	
----------	-----------	-------	--

Sample Description:

roduct/Solid
Polychlorinated Biphenyls By GC/ECD

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	2.0	0.49	mg/Kg	20		SW-846 8082A	10/16/24	10/17/24 10:58	SFM
Aroclor-1221 [1]	ND	2.0	0.92	mg/Kg	20		SW-846 8082A	10/16/24	10/17/24 10:58	SFM
Aroclor-1232 [1]	ND	2.0	0.49	mg/Kg	20		SW-846 8082A	10/16/24	10/17/24 10:58	SFM
Aroclor-1242 [1]	ND	2.0	0.55	mg/Kg	20		SW-846 8082A	10/16/24	10/17/24 10:58	SFM
Aroclor-1248 [2]	14	2.0	0.50	mg/Kg	20		SW-846 8082A	10/16/24	10/17/24 10:58	SFM
Aroclor-1254 [1]	14	2.0	0.59	mg/Kg	20		SW-846 8082A	10/16/24	10/17/24 10:58	SFM
Aroclor-1260 [1]	1.4	2.0	0.41	mg/Kg	20	J	SW-846 8082A	10/16/24	10/17/24 10:58	SFM
Aroclor-1262 [1]	ND	2.0	0.52	mg/Kg	20		SW-846 8082A	10/16/24	10/17/24 10:58	SFM
Aroclor-1268 [1]	ND	2.0	0.52	mg/Kg	20		SW-846 8082A	10/16/24	10/17/24 10:58	SFM
Surrogates		% Reco	very	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		64.3		30-150					10/17/24 10:58	
Decachlorobiphenyl [2]		56.0		30-150					10/17/24 10:58	
Tetrachloro-m-xylene [1]		84.7		30-150					10/17/24 10:58	
Tetrachloro-m-xylene [2]		69.7		30-150					10/17/24 10:58	



Polychlorinated Biphenyls By GC/ECD

Table of Contents

Work Order: 24J1726

Date Received: 10/10/2024 Field Sample #: MH-4 Block Filler 2nd Floor

Sampled: 10/8/2024 16:22

Sample Description:

Sample ID: 24J1726-04

Project Location: Raleigh, NC

Sample Matrix: Product/Solid

			-	-						
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.90	0.22	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:16	
Aroclor-1221 [1]	ND	0.90	0.42	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:16	
Aroclor-1232 [1]	ND	0.90	0.22	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:16	SFM
Aroclor-1242 [1]	ND	0.90	0.25	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:16	SFM
Aroclor-1248 [1]	2.9	0.90	0.22	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:16	SFM
Aroclor-1254 [1]	5.8	0.90	0.27	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:16	SFM
Aroclor-1260 [2]	0.59	0.90	0.24	mg/Kg	10	J	SW-846 8082A	10/14/24	10/16/24 10:16	SFM
Aroclor-1262 [1]	ND	0.90	0.23	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:16	SFM
Aroclor-1268 [1]	ND	0.90	0.24	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:16	SFM
Surrogates		% Reco	overy	Recovery Limit	s	Flag/Qual				
Decachlorobiphenyl [1]		101		30-150					10/16/24 10:16	
Decachlorobiphenyl [2]		102		30-150					10/16/24 10:16	
Tetrachloro-m-xylene [1]		95.1		30-150					10/16/24 10:16	
Tetrachloro-m-xylene [2]		96.2		30-150					10/16/24 10:16	



Table of Contents

Work Order: 24J1726

Date Received: 10/10/2024 Field Sample #: MH-5 Block Filler 3rd Floor

Sampled: 10/8/2024 16:30

Sample Description:

Sample ID: 24J1726-05

Project Location: Raleigh, NC

Sample Matrix: Product/Solid

			Poly	chlorinated Biph	enyls By GC	/ECD				
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.072	0.018	mg/Kg	1		SW-846 8082A	10/14/24	10/15/24 17:29	SFM
Aroclor-1221 [1]	ND	0.072	0.033	mg/Kg	1		SW-846 8082A	10/14/24	10/15/24 17:29	SFM
Aroclor-1232 [1]	ND	0.072	0.018	mg/Kg	1		SW-846 8082A	10/14/24	10/15/24 17:29	SFM
Aroclor-1242 [1]	ND	0.072	0.020	mg/Kg	1		SW-846 8082A	10/14/24	10/15/24 17:29	SFM
Aroclor-1248 [1]	0.45	0.072	0.017	mg/Kg	1		SW-846 8082A	10/14/24	10/15/24 17:29	SFM
Aroclor-1254 [1]	0.84	0.072	0.021	mg/Kg	1		SW-846 8082A	10/14/24	10/15/24 17:29	SFM
Aroclor-1260 [1]	0.090	0.072	0.015	mg/Kg	1		SW-846 8082A	10/14/24	10/15/24 17:29	SFM
Aroclor-1262 [1]	ND	0.072	0.019	mg/Kg	1		SW-846 8082A	10/14/24	10/15/24 17:29	SFM
Aroclor-1268 [1]	ND	0.072	0.019	mg/Kg	1		SW-846 8082A	10/14/24	10/15/24 17:29	SFM
Surrogates		% Reco	very	Recovery Limits	5	Flag/Qual				
Decachlorobiphenyl [1]		106		30-150					10/15/24 17:29	
Decachlorobiphenyl [2]		101		30-150					10/15/24 17:29	
Tetrachloro-m-xylene [1]		98.3		30-150					10/15/24 17:29	
Tetrachloro-m-xylene [2]		88.4		30-150					10/15/24 17:29	



Work Order: 24J1726

Date/Time

Analyzed

10/16/24 10:33

10/16/24 10:33

10/16/24 10:33

10/16/24 10:33

10/16/24 10:33

10/16/24 10:33

10/16/24 10:33

10/16/24 10:33

Analyst

SFM

SFM

SFM

SFM

SFM

SFM

SFM

SFM

Date Received: 10/10/2024 Field Sample #: MH-6 Block Filler 4th Floor

Project Location: Raleigh, NC

Sampled: 10/8/2024 16:39

Sample Description:

Sample ID: 24J1726-06

Sample Matrix: Product/Solid Polychlorinated Biphenyls By GC/ECD Date Analyte Results RL DL Units Dilution Flag/Qual Method Prepared Aroclor-1016 [1] ND 0.97 0.24 mg/Kg 10 SW-846 8082A 10/14/24 Aroclor-1221 [1] ND 0.97 0.45 mg/Kg 10 SW-846 8082A 10/14/24 Aroclor-1232 [1] ND SW-846 8082A 0.97 0.24 10 10/14/24 mg/Kg Aroclor-1242 [1] ND 0.97 0.27 SW-846 8082A 10/14/24 mg/Kg 10 Aroclor-1248 [1] SW-846 8082A 6.0 0.97 0.23 10 10/14/24 mg/Kg Aroclor-1254 [2] SW-846 8082A 10/14/24 9.2 0.97 0.37 mg/Kg 10 Aroclor-1260 [2] 1.2 0.97 0.26 mg/Kg 10SW-846 8082A 10/14/24 Aroclor-1262 [1] ND SW-846 8082A 0.97 0.25 mg/Kg 10 10/14/24

Aroclor-1268 [1]	ND	0.97	0.25	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:33	SFM
Surrogates		% Recov	ery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.1		30-150					10/16/24 10:33	
Decachlorobiphenyl [2]		81.1		30-150					10/16/24 10:33	
Tetrachloro-m-xylene [1]		76.3		30-150					10/16/24 10:33	
Tetrachloro-m-xylene [2]		76.6		30-150					10/16/24 10:33	



Work Order: 24J1726

Project Location: Raleigh, NC Date Received: 10/10/2024

Field Sample #: MH-7 Tan Door Caulk South (Sticky) Sampled: 10/8/2024 17:30

Sample Description:

Sample ID: 24J1726-07

Sample Matrix: Caulk

		1	Polychlorinated Bip	henyls By GC	/ECD				
Analyte	Results	RL D	L Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	72	mg/Kg	40		SW-846 8082A Modified	10/15/24	10/16/24 8:13	MEW
Aroclor-1221 [1]	ND	72	mg/Kg	40		SW-846 8082A Modified	10/15/24	10/16/24 8:13	MEW
Aroclor-1232 [1]	ND	72	mg/Kg	40		SW-846 8082A Modified	10/15/24	10/16/24 8:13	MEW
Aroclor-1242 [1]	ND	72	mg/Kg	40		SW-846 8082A Modified	10/15/24	10/16/24 8:13	MEW
Aroclor-1248 [2]	940	72	mg/Kg	40		SW-846 8082A Modified	10/15/24	10/16/24 8:13	MEW
Aroclor-1254 [1]	220	72	mg/Kg	40		SW-846 8082A Modified	10/15/24	10/16/24 8:13	MEW
Aroclor-1260 [1]	ND	72	mg/Kg	40		SW-846 8082A Modified	10/15/24	10/16/24 8:13	MEW
Aroclor-1262 [1]	ND	72	mg/Kg	40		SW-846 8082A Modified	10/15/24	10/16/24 8:13	MEW
Aroclor-1268 [1]	ND	72	mg/Kg	40		SW-846 8082A Modified	10/15/24	10/16/24 8:13	MEW
Surrogates		% Recovery	Recovery Lim	its	Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			10/16/24 8:13	
Decachlorobiphenyl [2]		*	30-150		S-01			10/16/24 8:13	
Tetrachloro-m-xylene [1]		*	30-150		S-01			10/16/24 8:13	
Tetrachloro-m-xylene [2]		*	30-150		S-01			10/16/24 8:13	



Table of Contents

Work Order: 24J1726

10/15/24 15:46

Project Location: Raleigh, NC Date Received: 10/10/2024

Field Sample #: MH-8 Gray Door Caulk 2nd & 4th

Sample ID: 24J1726-08

Tetrachloro-m-xylene [2]

Sampled: 10/8/2024 17:33

Sample Description:

104

Sample Matrix: Caulk Polychlorinated Biphenyls By GC/ECD Date Date/Time Analyte Results RL DL Units Dilution Flag/Qual Method Prepared Analyzed Analyst Aroclor-1016 [1] ND 38 mg/Kg 20 SW-846 8082A Modified 10/15/24 10/15/24 15:46 MEW Aroclor-1221 [1] ND 38 mg/Kg 20 SW-846 8082A Modified 10/15/24 10/15/24 15:46 MEW Aroclor-1232 [1] ND SW-846 8082A Modified 38 20 10/15/24 10/15/24 15:46 MEW mg/Kg Aroclor-1242 [1] ND 38 mg/Kg 20 SW-846 8082A Modified 10/15/24 10/15/24 15:46 MEW Aroclor-1248 [2] SW-846 8082A Modified 10/15/24 560 38 10/15/24 15:46 MEW mg/Kg 20 Aroclor-1254 [2] SW-846 8082A Modified 10/15/24 10/15/24 15:46 140 38 20 MEW mg/Kg Aroclor-1260 [1] SW-846 8082A Modified ND 38 mg/Kg 20 10/15/24 10/15/24 15:46 MEW Aroclor-1262 [1] ND 38 20 SW-846 8082A Modified 10/15/24 mg/Kg 10/15/24 15:46 MEW Aroclor-1268 [1] ND 38 mg/Kg 20 SW-846 8082A Modified 10/15/24 10/15/24 15:46 MEW Surrogates % Recovery **Recovery Limits** Flag/Qual Decachlorobiphenyl [1] 110 30-150 10/15/24 15:46 Decachlorobiphenyl [2] 102 30-150 10/15/24 15:46 110 30-150 Tetrachloro-m-xylene [1] 10/15/24 15:46

30-150



Work Order: 24J1726

Project Location: Raleigh, NC Date Received: 10/10/2024

Field Sample #: MH-9 White Door Caulk 2

Sample ID: 24J1726-09

Tetrachloro-m-xylene [2]

nd	Sampled:	10/8/2024	17:40	

90.2

Sample Description:

Sample Matrix: Caulk Polychlorinated Biphenyls By GC/ECD Date Date/Time Analyte Results RL DL Units Dilution Flag/Qual Method Prepared Analyzed Analyst Aroclor-1016 [1] ND 0.78 0.19 mg/Kg 4 SW-846 8082A 10/15/24 10/16/24 12:24 SFM Aroclor-1221 [1] ND 0.78 0.36 mg/Kg 4 SW-846 8082A 10/15/24 10/16/24 12:24 SFM Aroclor-1232 [1] ND SW-846 8082A 0.78 0.19 4 10/15/24 10/16/24 12:24 SFM mg/Kg Aroclor-1242 [1] ND 0.78 0.21 4 SW-846 8082A 10/15/24 10/16/24 12:24 SFM mg/Kg Aroclor-1248 [2] SW-846 8082A 32 0.78 0.20 4 10/15/24 10/16/24 12:24 SFM mg/Kg Aroclor-1254 [1] 21 SW-846 8082A 10/15/24 10/16/24 12:24 0.78 0.23 4 SFM mg/Kg Aroclor-1260 [1] ND 0.78 0.16 mg/Kg 4 SW-846 8082A 10/15/24 10/16/24 12:24 SFM Aroclor-1262 [1] ND 0.78 0.20 4 SW-846 8082A 10/15/24 10/16/24 12:24 mg/Kg SFM Aroclor-1268 [1] ND 0.78 0.20 mg/Kg 4 SW-846 8082A 10/15/24 10/16/24 12:24 SFM Surrogates % Recovery **Recovery Limits** Flag/Qual Decachlorobiphenyl [1] 75.0 30-150 10/16/24 12:24 Decachlorobiphenyl [2] 75.1 30-150 10/16/24 12:24 89.9 30-150 Tetrachloro-m-xylene [1]

30-150

10/16/24 12:24 10/16/24 12:24



Work Order: 24J1726

10/17/24 11:51

Project Location: Raleigh, NC Date Received: 10/10/2024 Field Sample #: MH-10 Internal Duct Mastic Rm 306

Sampled: 10/8/2024 17:45

66.4

Sample Description:

Sample ID: 24J1726-10

Tetrachloro-m-xylene [2]

Sample 1D: 2451/20-10										
Sample Matrix: Product/Solid										
			Poly	chlorinated Biph	enyls By GC	/ECD				
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	0.046	mg/Kg	2		SW-846 8082A	10/16/24	10/17/24 11:51	SFM
Aroclor-1221 [1]	ND	0.19	0.087	mg/Kg	2		SW-846 8082A	10/16/24	10/17/24 11:51	SFM
Aroclor-1232 [1]	ND	0.19	0.046	mg/Kg	2		SW-846 8082A	10/16/24	10/17/24 11:51	SFM
Aroclor-1242 [1]	ND	0.19	0.052	mg/Kg	2		SW-846 8082A	10/16/24	10/17/24 11:51	SFM
Aroclor-1248 [1]	0.64	0.19	0.045	mg/Kg	2		SW-846 8082A	10/16/24	10/17/24 11:51	SFM
Aroclor-1254 [2]	2.7	0.19	0.071	mg/Kg	2		SW-846 8082A	10/16/24	10/17/24 11:51	SFM
Aroclor-1260 [1]	ND	0.19	0.039	mg/Kg	2		SW-846 8082A	10/16/24	10/17/24 11:51	SFM
Aroclor-1262 [1]	ND	0.19	0.049	mg/Kg	2		SW-846 8082A	10/16/24	10/17/24 11:51	SFM
Aroclor-1268 [1]	ND	0.19	0.050	mg/Kg	2		SW-846 8082A	10/16/24	10/17/24 11:51	SFM
Surrogates		% Reco	overy	Recovery Limit	8	Flag/Qual				
Decachlorobiphenyl [1]		52.0		30-150					10/17/24 11:51	
Decachlorobiphenyl [2]		57.6		30-150					10/17/24 11:51	
Tetrachloro-m-xylene [1]		63.5		30-150					10/17/24 11:51	

30-150



Sample Description:

Sampled: 10/8/2024 17:55

Table of Contents

Work Order: 24J1726

Project Location: Raleigh, NC Date Received: 10/10/2024

Field Sample #: MH-11 Exterior Window Caulk Upper

Sample ID: 24J1726-11

Sample Matrix: Caulk

		Р	olychlorinated Bip	henyls By GC	/ECD				
Analyte	Results	RL D	L Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	750	mg/Kg	400		SW-846 8082A Modified	10/15/24	10/16/24 8:31	MEW
Aroclor-1221 [1]	ND	750	mg/Kg	400		SW-846 8082A Modified	10/15/24	10/16/24 8:31	MEW
Aroclor-1232 [1]	ND	750	mg/Kg	400		SW-846 8082A Modified	10/15/24	10/16/24 8:31	MEW
Aroclor-1242 [1]	ND	750	mg/Kg	400		SW-846 8082A Modified	10/15/24	10/16/24 8:31	MEW
Aroclor-1248 [1]	15000	750	mg/Kg	400		SW-846 8082A Modified	10/15/24	10/16/24 8:31	MEW
Aroclor-1254 [2]	31000	750	mg/Kg	400		SW-846 8082A Modified	10/15/24	10/16/24 8:31	MEW
Aroclor-1260 [1]	ND	750	mg/Kg	400		SW-846 8082A Modified	10/15/24	10/16/24 8:31	MEW
Aroclor-1262 [1]	ND	750	mg/Kg	400		SW-846 8082A Modified	10/15/24	10/16/24 8:31	MEW
Aroclor-1268 [1]	ND	750	mg/Kg	400		SW-846 8082A Modified	10/15/24	10/16/24 8:31	MEW
Surrogates		% Recovery	Recovery Limi	ts	Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			10/16/24 8:31	
Decachlorobiphenyl [2]		*	30-150		S-01			10/16/24 8:31	
Tetrachloro-m-xylene [1]		*	30-150		S-01			10/16/24 8:31	
Tetrachloro-m-xylene [2]		*	30-150		S-01			10/16/24 8:31	



Work Order: 24J1726

10/16/24 10:50

Project Location: Raleigh, NC Date Received: 10/10/2024

Field Sample #: MH-12 Exterior Window Glazing Upper Sampled: 10/8/2024 17:57

Sample Description:

86.7

Sample ID: 24J1726-12

Sa

Tetrachloro-m-xylene [2]

			Poly	chlorinated Bipho	enyls By GC	/ECD				
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.71	0.17	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:50	SFM
Aroclor-1221 [1]	ND	0.71	0.33	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:50	SFM
Aroclor-1232 [1]	ND	0.71	0.17	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:50	SFM
Aroclor-1242 [1]	ND	0.71	0.20	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:50	SFM
Aroclor-1248 [1]	1.7	0.71	0.17	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:50	SFM
Aroclor-1254 [1]	7.5	0.71	0.21	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:50	SFM
Aroclor-1260 [1]	ND	0.71	0.15	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:50	SFM
Aroclor-1262 [1]	ND	0.71	0.18	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:50	SFM
Aroclor-1268 [1]	ND	0.71	0.19	mg/Kg	10		SW-846 8082A	10/14/24	10/16/24 10:50	SFM
Surrogates		% Reco	very	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		109		30-150					10/16/24 10:50	
Decachlorobiphenyl [2]		116		30-150					10/16/24 10:50	
Tetrachloro-m-xylene [1]		91.8		30-150					10/16/24 10:50	

30-150



Table of Contents

Work Order: 24J1726

Date Received: 10/10/2024 Field Sample #: MH-13 Exterior Vent Caulk East

Project Location: Raleigh, NC

Sampled: 10/8/2024 18:09

Sample ID: 24J1726-13

Sample Description:

Sample Matrix: Caulk Polychlorinated Biphenyls By GC/ECD Date Date/Time Analyte Results RL DL Units Dilution Flag/Qual Method Prepared Analyzed Analyst Aroclor-1016 [1] ND 3500 mg/Kg 2000 SW-846 8082A Modified 10/15/24 10/15/24 16:22 MEW Aroclor-1221 [1] ND 3500 mg/Kg 2000 SW-846 8082A Modified 10/15/24 10/15/24 16:22 MEW Aroclor-1232 [1] ND SW-846 8082A Modified 3500 2000 10/15/24 10/15/24 16:22 MEW mg/Kg Aroclor-1242 [1] ND 3500 2000 SW-846 8082A Modified 10/15/24 10/15/24 16:22 MEW mg/Kg Aroclor-1248 [1] ND SW-846 8082A Modified 10/15/24 16:22 3500 2000 10/15/24 MEW mg/Kg Aroclor-1254 [2] SW-846 8082A Modified 34000 10/15/24 10/15/24 16:22 3500 2000 MEW mg/Kg Aroclor-1260 [1] SW-846 8082A Modified ND 3500 mg/Kg 2000 10/15/24 10/15/24 16:22 MEW Aroclor-1262 [1] ND 2000 SW-846 8082A Modified 10/15/24 3500 mg/Kg 10/15/24 16:22 MEW Aroclor-1268 [1] ND 3500 mg/Kg 2000 SW-846 8082A Modified 10/15/24 10/15/24 16:22 MEW Flag/Qual Surrogates % Recovery **Recovery Limits** Decachlorobiphenyl [1] 30-150 S-01 10/15/24 16:22 Decachlorobiphenyl [2] * 30-150 S-01 10/15/24 16:22 * S-01 Tetrachloro-m-xylene [1] 30-150 10/15/24 16:22 30-150 S-01 10/15/24 16:22 Tetrachloro-m-xylene [2]



Work Order: 24J1726

10/16/24 11:07

Project Location: Raleigh, NC Date Received: 10/10/2024

Field Sample #: MH-14 Brick at Rear Door Left

Sample ID: 24J1726-14

Tetrachloro-m-xylene [2]

Sampled: 10/8/2024 17:00

*

Sample Description:

Sample Matrix: Brick Polychlorinated Biphenyls By GC/ECD Date Date/Time Analyte Results RL DL Units Dilution Flag/Qual Method Prepared Analyzed Analyst Aroclor-1016 [1] ND 3.9 0.97 mg/Kg 50 SW-846 8082A 10/14/24 10/16/24 11:07 SFM Aroclor-1221 [1] ND 3.9 1.8 mg/Kg 50 SW-846 8082A 10/14/24 10/16/24 11:07 SFM Aroclor-1232 [1] SW-846 8082A ND 3.9 0.96 50 10/14/24 10/16/24 11:07 SFM mg/Kg Aroclor-1242 [1] ND 3.9 50 SW-846 8082A 10/14/24 10/16/24 11:07 SFM 1.1 mg/Kg Aroclor-1248 [1] SW-846 8082A 2.3 3.9 0.94 10/14/24 10/16/24 11:07 SFM mg/Kg 50 J Aroclor-1254 [2] SW-846 8082A 10/14/24 23 3.9 1.5 50 10/16/24 11:07 SFM mg/Kg Aroclor-1260 [1] ND 3.9 0.81 mg/Kg 50 SW-846 8082A 10/14/24 10/16/24 11:07 SFM Aroclor-1262 [1] ND 3.9 50 SW-846 8082A 10/14/24 1.0 mg/Kg 10/16/24 11:07 SFM Aroclor-1268 [1] ND 3.9 1.0mg/Kg 50 SW-846 8082A 10/14/24 10/16/24 11:07 SFM Surrogates % Recovery **Recovery Limits** Flag/Qual Decachlorobiphenyl [1] 30-150 S-01 10/16/24 11:07 * Decachlorobiphenyl [2] 30-150 S-01 10/16/24 11:07 * S-01 10/16/24 11:07 Tetrachloro-m-xylene [1] 30-150

S-01

30-150



Table of Contents

Work Order: 24J1726

10/16/24 11:24

10/16/24 11:24

Date Received: 10/10/2024 Field Sample #: MH-15 Brick at Rear Door Right

Sample Description:

91.9

93.1

Sample ID: 24J1726-15

Project Location: Raleigh, NC

Sample Matrix: Brick

Tetrachloro-m-xylene [1] Tetrachloro-m-xylene [2] Sampled: 10/8/2024 17:10

Polychlorinated Biphenyls By GC/ECD Date Date/Time Analyte Results RL DL Units Dilution Flag/Qual Method Prepared Analyzed Analyst Aroclor-1016 [1] ND 0.90 0.22 mg/Kg 10 SW-846 8082A 10/14/24 10/16/24 11:24 SFM Aroclor-1221 [1] ND 0.90 0.42 mg/Kg 10 SW-846 8082A 10/14/24 10/16/24 11:24 SFM Aroclor-1232 [1] ND SW-846 8082A 0.90 0.22 10 10/14/24 10/16/24 11:24 SFM mg/Kg Aroclor-1242 [1] ND 0.90 0.25 10 SW-846 8082A 10/14/24 10/16/24 11:24 SFM mg/Kg Aroclor-1248 [1] SW-846 8082A 2.9 0.90 0.22 10 10/14/24 10/16/24 11:24 SFM mg/Kg Aroclor-1254 [2] SW-846 8082A 10/14/24 10/16/24 11:24 6.2 0.90 0.34 10 SFM mg/Kg Aroclor-1260 [1] ND 0.90 0.19 mg/Kg 10 SW-846 8082A 10/14/24 10/16/24 11:24 SFM Aroclor-1262 [1] ND 0.23 10 SW-846 8082A 10/14/24 0.90 mg/Kg 10/16/24 11:24 SFM Aroclor-1268 [1] ND 0.90 0.24 mg/Kg 10 SW-846 8082A 10/14/24 10/16/24 11:24 SFM Surrogates % Recovery **Recovery Limits** Flag/Qual Decachlorobiphenyl [1] 106 30-150 10/16/24 11:24 Decachlorobiphenyl [2] 109 30-150 10/16/24 11:24

30-150

30-150



Sample Extraction Data

Prep Method:SW-846 3546 Analytical Method:SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J1726-09 [MH-9 White Door Caulk 2nd]	B389358	0.514	10.0	10/15/24

Prep Method:SW-846 3546 Analytical Method:SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
24J1726-01 [MH-1 External Duct Mastic 2nd Floor]	B389248	2.05	10.0	10/14/24	
24J1726-02 [MH-2 External Duct Mastic 3rd Floor]	B389248	2.83	10.0	10/14/24	
24J1726-04 [MH-4 Block Filler 2nd Floor]	B389248	2.21	10.0	10/14/24	
24J1726-05 [MH-5 Block Filler 3rd Floor]	B389248	2.77	10.0	10/14/24	
24J1726-06 [MH-6 Block Filler 4th Floor]	B389248	2.07	10.0	10/14/24	
24J1726-12 [MH-12 Exterior Window Glazing Upper]	B389248	2.82	10.0	10/14/24	
24J1726-14 [MH-14 Brick at Rear Door Left]	B389248	2.55	10.0	10/14/24	
24J1726-15 [MH-15 Brick at Rear Door Right]	B389248	2.21	10.0	10/14/24	

Prep Method:SW-846 3546 Analytical Method:SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
24J1726-03RE1 [MH-3 External Duct Mastic 4th Floor]	B389477	2.01	10.0	10/16/24
24J1726-10RE1 [MH-10 Internal Duct Mastic Rm 306]	B389477	1.91	9.00	10/16/24

Prep Method:SW-846 3540C Analytical Method:SW-846 8082A Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date	
24J1726-07 [MH-7 Tan Door Caulk South (Sticky)]	B389208	0.0555	10.0	10/15/24	
24J1726-08 [MH-8 Gray Door Caulk 2nd & 4th]	B389208	0.0520	10.0	10/15/24	
24J1726-11 [MH-11 Exterior Window Caulk Upper]	B389208	0.0536	10.0	10/15/24	
24J1726-13 [MH-13 Exterior Vent Caulk East]	B389208	0.0571	10.0	10/15/24	



QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

A	D L	Reporting	I.I., 'r	Spike	Source	0/850	%REC	0.00	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B389208 - SW-846 3540C										
Blank (B389208-BLK1)				Prepared: 10)/14/24 Anal	yzed: 10/16/2	24			
Aroclor-1016	ND	1.7	mg/Kg							
Aroclor-1016 [2C]	ND	1.7	mg/Kg							
Aroclor-1221	ND	1.7	mg/Kg							
Aroclor-1221 [2C]	ND	1.7	mg/Kg							
Aroclor-1232	ND	1.7	mg/Kg							
Aroclor-1232 [2C]	ND	1.7	mg/Kg							
Aroclor-1242	ND	1.7	mg/Kg							
Aroclor-1242 [2C]	ND	1.7	mg/Kg							
Aroclor-1248	ND	1.7	mg/Kg							
Aroclor-1248 [2C]	ND	1.7	mg/Kg							
Aroclor-1254	ND	1.7	mg/Kg							
Aroclor-1254 [2C]	ND	1.7	mg/Kg							
Aroclor-1260	ND	1.7	mg/Kg							
Aroclor-1260 [2C]	ND	1.7	mg/Kg							
Aroclor-1262	ND	1.7	mg/Kg							
Aroclor-1262 [2C]	ND	1.7	mg/Kg							
Aroclor-1268	ND	1.7	mg/Kg							
Aroclor-1268 [2C]	ND	1.7	mg/Kg							
Surrogate: Decachlorobiphenyl	36.3		mg/Kg	33.67		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	35.0		mg/Kg	33.67		104	30-150			
Surrogate: Tetrachloro-m-xylene	36.7		mg/Kg	33.67		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	37.1		mg/Kg	33.67		110	30-150			
LCS (B389208-BS1)				Prepared: 10)/14/24 Anal	yzed: 10/16/2	24			
Aroclor-1016	35	1.7	mg/Kg	33.61		105	40-140			
Aroclor-1016 [2C]	33	1.7	mg/Kg	33.61		99.6	40-140			
Aroclor-1260	37	1.7	mg/Kg	33.61		109	40-140			
Aroclor-1260 [2C]	35	1.7	mg/Kg	33.61		104	40-140			
Surrogate: Decachlorobiphenyl	41.5		mg/Kg	33.61		124	30-150			
Surrogate: Decachlorobiphenyl [2C]	40.0		mg/Kg	33.61		119	30-150			
Surrogate: Tetrachloro-m-xylene	41.6		mg/Kg	33.61		124	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	42.1		mg/Kg	33.61		125	30-150			
LCS Dup (B389208-BSD1)				Prepared: 10)/14/24 Anal	yzed: 10/16/2	24			
Aroclor-1016	34	1.7	mg/Kg	34.54		97.7	40-140	4.41		
Aroclor-1016 [2C]	32	1.7	mg/Kg	34.54		93.8	40-140	3.31		
Aroclor-1260	35	1.7	mg/Kg	34.54		102	40-140	3.98		
Aroclor-1260 [2C]	33	1.7	mg/Kg	34.54		96.8	40-140	4.07		
Surrogate: Decachlorobiphenyl	41.4		mg/Kg	34.54		120	30-150			
Surrogate: Decachlorobiphenyl [2C]	39.8		mg/Kg	34.54		115	30-150			
Surrogate: Tetrachloro-m-xylene	40.0		mg/Kg	34.54		116	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	40.2		mg/Kg	34.54		116	30-150			



QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B389248 - SW-846 3546										
Blank (B389248-BLK1)				Prepared: 10)/14/24 Anal	yzed: 10/15/2	24			
Aroclor-1016	ND	0.080	mg/Kg							
Aroclor-1016 [2C]	ND	0.080	mg/Kg							
Aroclor-1221	ND	0.080	mg/Kg							
Aroclor-1221 [2C]	ND	0.080	mg/Kg							
Aroclor-1232	ND	0.080	mg/Kg							
Aroclor-1232 [2C]	ND	0.080	mg/Kg							
Aroclor-1242	ND	0.080	mg/Kg							
Aroclor-1242 [2C]	ND	0.080	mg/Kg							
Aroclor-1248	ND	0.080	mg/Kg							
Aroclor-1248 [2C]	ND	0.080	mg/Kg							
Aroclor-1254	ND	0.080	mg/Kg							
Aroclor-1254 [2C]	ND	0.080	mg/Kg							
Aroclor-1260	ND	0.080	mg/Kg							
Aroclor-1260 [2C]	ND	0.080	mg/Kg							
Aroclor-1262	ND	0.080	mg/Kg							
Aroclor-1262 [2C]	ND	0.080	mg/Kg							
Aroclor-1268	ND	0.080	mg/Kg							
Aroclor-1268 [2C]	ND	0.080	mg/Kg							
Surrogate: Decachlorobiphenyl	0.852		mg/Kg	0.7968		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.835		mg/Kg	0.7968		105	30-150			
Surrogate: Tetrachloro-m-xylene	0.765		mg/Kg	0.7968		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.679		mg/Kg	0.7968		85.2	30-150			
LCS (B389248-BS1)				Prepared: 10)/14/24 Anal	yzed: 10/15/2	24			
Aroclor-1016	0.79	0.082	mg/Kg	0.8163		97.0	40-140			
Aroclor-1016 [2C]	0.79	0.082	mg/Kg	0.8163		96.3	40-140			
Aroclor-1260	0.89	0.082	mg/Kg	0.8163		109	40-140			
Aroclor-1260 [2C]	0.91	0.082	mg/Kg	0.8163		112	40-140			
Surrogate: Decachlorobiphenyl	0.891		mg/Kg	0.8163		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.875		mg/Kg	0.8163		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.852		mg/Kg	0.8163		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.762		mg/Kg	0.8163		93.3	30-150			
LCS Dup (B389248-BSD1)				Prepared: 10)/14/24 Anal	yzed: 10/15/2	24			
Aroclor-1016	0.75	0.081	mg/Kg	0.8097		92.0	40-140	6.10	30	
Aroclor-1016 [2C]	0.74	0.081	mg/Kg	0.8097		91.1	40-140	6.40	30	
Aroclor-1260	0.86	0.081	mg/Kg	0.8097		107	40-140	3.00	30	
Aroclor-1260 [2C]	0.89	0.081	mg/Kg	0.8097		110	40-140	2.85	30	
Surrogate: Decachlorobiphenyl	0.857		mg/Kg	0.8097		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.846		mg/Kg	0.8097		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.778		mg/Kg	0.8097		96.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.689		mg/Kg	0.8097		85.0	30-150			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		CEC nits	RPD		RPD Limit	Notes
Batch B389248 - SW-846 3546	Result	Linit	emu	Lover	resur	/ UILL		into	Iu D			110105
Matrix Spike (B389248-MS1)	Sou	rce: 24J1726-	14	Prepared: 10)/14/24 Analy:	zed: 10/	16/24					
Aroclor-1016	5.7	3.9	mg/Kg	0.7752	ND	730		140				MS-21
Aroclor-1016 [2C]	5.9	3.9	mg/Kg	0.7752	ND	760	* 40-					MS-21 MS-21
Aroclor-1260	25	3.9	mg/Kg	0.7752	ND	3240	* 40-					MS-21
Aroclor-1260 [2C]	35	3.9	mg/Kg	0.7752	ND	4560	* 40-	140				MS-21
Surrogate: Decachlorobiphenyl	0.00		mg/Kg	0.7752			* 30-	150				S-01
Surrogate: Decachlorobiphenyl [2C]	0.00		mg/Kg	0.7752			* 30-	150				S-01
Surrogate: Tetrachloro-m-xylene	0.00		mg/Kg	0.7752			* 30-	150				S-01
Surrogate: Tetrachloro-m-xylene [2C]	0.00		mg/Kg	0.7752			* 30-	150				S-01
Matrix Spike Dup (B389248-MSD1)	Sou	rce: 24J1726-1	14	Prepared: 10)/14/24 Analy:	zed: 10/2	16/24					
Aroclor-1016	4.1	4.0	mg/Kg	0.8000	ND	515	* 40-	140	31.5	*	30	MS-21
Aroclor-1016 [2C]	4.3	4.0	mg/Kg	0.8000	ND	533	* 40-	140	32.0	*	30	MS-21
Aroclor-1260	11	4.0	mg/Kg	0.8000	ND	1370	* 40-	140	78.5	*	30	MS-21
Aroclor-1260 [2C]	16	4.0	mg/Kg	0.8000	ND	2000	* 40-	140	75.4	*	30	MS-21
Surrogate: Decachlorobiphenyl	0.00		mg/Kg	0.8000			* 30-	150				S-01
Surrogate: Decachlorobiphenyl [2C]	0.00		mg/Kg	0.8000			* 30-	150				S-01
Surrogate: Tetrachloro-m-xylene	0.00		mg/Kg	0.8000			* 30-	150				S-01
Surrogate: Tetrachloro-m-xylene [2C]	0.00		mg/Kg	0.8000			* 30-	150				S-01

Batch B389358 - SW-846 3546

Blank (B389358-BLK1)				Prepared: 10/15/24	Analyzed: 10/16/2	24	
Aroclor-1016	ND	0.19	mg/Kg				
Aroclor-1016 [2C]	ND	0.19	mg/Kg				
Aroclor-1221	ND	0.19	mg/Kg				
Aroclor-1221 [2C]	ND	0.19	mg/Kg				
Aroclor-1232	ND	0.19	mg/Kg				
Aroclor-1232 [2C]	ND	0.19	mg/Kg				
Aroclor-1242	ND	0.19	mg/Kg				
Aroclor-1242 [2C]	ND	0.19	mg/Kg				
Aroclor-1248	ND	0.19	mg/Kg				
Aroclor-1248 [2C]	ND	0.19	mg/Kg				
Aroclor-1254	ND	0.19	mg/Kg				
Aroclor-1254 [2C]	ND	0.19	mg/Kg				
Aroclor-1260	ND	0.19	mg/Kg				
Aroclor-1260 [2C]	ND	0.19	mg/Kg				
Aroclor-1262	ND	0.19	mg/Kg				
Aroclor-1262 [2C]	ND	0.19	mg/Kg				
Aroclor-1268	ND	0.19	mg/Kg				
Aroclor-1268 [2C]	ND	0.19	mg/Kg				
Surrogate: Decachlorobiphenyl	2.66		mg/Kg	3.887	68.5	30-150	
Surrogate: Decachlorobiphenyl [2C]	3.24		mg/Kg	3.887	83.3	30-150	
Surrogate: Tetrachloro-m-xylene	3.00		mg/Kg	3.887	77.3	30-150	
Surrogate: Tetrachloro-m-xylene [2C]	3.67		mg/Kg	3.887	94.4	30-150	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B389358 - SW-846 3546										
LCS (B389358-BS1)				Prepared: 10)/15/24 Anal	yzed: 10/16/2	24			
Aroclor-1016	2.8	0.18	mg/Kg	3.687		76.9	40-140			
Aroclor-1016 [2C]	3.1	0.18	mg/Kg	3.687		83.0	40-140			
Aroclor-1260	3.2	0.18	mg/Kg	3.687		86.4	40-140			
Aroclor-1260 [2C]	3.3	0.18	mg/Kg	3.687		89.8	40-140			
Surrogate: Decachlorobiphenyl	2.58		mg/Kg	3.687		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.13		mg/Kg	3.687		85.0	30-150			
Surrogate: Tetrachloro-m-xylene	2.82		mg/Kg	3.687		76.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.35		mg/Kg	3.687		90.9	30-150			
LCS Dup (B389358-BSD1)				Prepared: 10)/15/24 Anal	yzed: 10/16/2	24			
Aroclor-1016	2.9	0.19	mg/Kg	3.747		78.7	40-140	3.91		
Aroclor-1016 [2C]	3.1	0.19	mg/Kg	3.747		83.5	40-140	2.24		
Aroclor-1260	3.3	0.19	mg/Kg	3.747		88.8	40-140	4.45		
Aroclor-1260 [2C]	3.3	0.19	mg/Kg	3.747		88.7	40-140	0.358		
Surrogate: Decachlorobiphenyl	2.59		mg/Kg	3.747		69.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	3.06		mg/Kg	3.747		81.6	30-150			
Surrogate: Tetrachloro-m-xylene	2.97		mg/Kg	3.747		79.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	3.46		mg/Kg	3.747		92.4	30-150			

Batch B389477 - SW-846 3546

Blank (B389477-BLK1)				Prepared: 10/16/24 A	Analyzed: 10/17/2	24	
Aroclor-1016	ND	0.087	mg/Kg				
Aroclor-1016 [2C]	ND	0.087	mg/Kg				
Aroclor-1221	ND	0.087	mg/Kg				
Aroclor-1221 [2C]	ND	0.087	mg/Kg				
Aroclor-1232	ND	0.087	mg/Kg				
Aroclor-1232 [2C]	ND	0.087	mg/Kg				
Aroclor-1242	ND	0.087	mg/Kg				
Aroclor-1242 [2C]	ND	0.087	mg/Kg				
Aroclor-1248	ND	0.087	mg/Kg				
Aroclor-1248 [2C]	ND	0.087	mg/Kg				
Aroclor-1254	ND	0.087	mg/Kg				
Aroclor-1254 [2C]	ND	0.087	mg/Kg				
Aroclor-1260	ND	0.087	mg/Kg				
Aroclor-1260 [2C]	ND	0.087	mg/Kg				
Aroclor-1262	ND	0.087	mg/Kg				
Aroclor-1262 [2C]	ND	0.087	mg/Kg				
Aroclor-1268	ND	0.087	mg/Kg				
Aroclor-1268 [2C]	ND	0.087	mg/Kg				
Surrogate: Decachlorobiphenyl	0.632		mg/Kg	0.8658	73.0	30-150	
Surrogate: Decachlorobiphenyl [2C]	0.719		mg/Kg	0.8658	83.1	30-150	
Surrogate: Tetrachloro-m-xylene	0.715		mg/Kg	0.8658	82.6	30-150	
Surrogate: Tetrachloro-m-xylene [2C]	0.782		mg/Kg	0.8658	90.3	30-150	



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B389477 - SW-846 3546										
LCS (B389477-BS1)				Prepared: 10)/16/24 Anal	yzed: 10/17/2	24			
Aroclor-1016	0.77	0.089	mg/Kg	0.8889		86.3	40-140			
Aroclor-1016 [2C]	0.78	0.089	mg/Kg	0.8889		88.1	40-140			
Aroclor-1260	0.87	0.089	mg/Kg	0.8889		97.6	40-140			
Aroclor-1260 [2C]	0.84	0.089	mg/Kg	0.8889		95.0	40-140			
Surrogate: Decachlorobiphenyl	0.631		mg/Kg	0.8889		70.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.720		mg/Kg	0.8889		81.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.744		mg/Kg	0.8889		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.835		mg/Kg	0.8889		94.0	30-150			
LCS Dup (B389477-BSD1)				Prepared: 10	/16/24 Anal	yzed: 10/17/2	24			
Aroclor-1016	0.75	0.089	mg/Kg	0.8929		83.9	40-140	2.32	30	
Aroclor-1016 [2C]	0.78	0.089	mg/Kg	0.8929		87.7	40-140	0.0188	30	
Aroclor-1260	0.85	0.089	mg/Kg	0.8929		95.7	40-140	1.45	30	
Aroclor-1260 [2C]	0.84	0.089	mg/Kg	0.8929		94.4	40-140	0.188	30	
Surrogate: Decachlorobiphenyl	0.614		mg/Kg	0.8929		68.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.716		mg/Kg	0.8929		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.733		mg/Kg	0.8929		82.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.824		mg/Kg	0.8929		92.2	30-150			



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

IH-1 External Duct Mastic 2nd Floo

La	b Sample ID: 24	J1726-01		D	ate(s) Analy	zed:1	0/16/2024	10/1	6/2024
In	strument ID (1):	ECD10			strument ID	(2):	ECI		
G	C Column (1):	ID:	(mm)		C Column (2):		ID:	(mm)
	ANALYTE	COL	RT				TRATION	%RPD	
	Aroclor-1248	1	0.000	FROM 0.000	TO 0.000	2	7		
		2	0.000	0.000	0.000		3	16.0	
	Aroclor-1254	1	0.000	0.000	0.000	5	4		
		2	0.000	0.000	0.000	5	7	5.4	
	Aroclor-1260	1	0.000	0.000	0 0.000		1		
		2	0.000	0.00 0.000 0.0		9	4	3.2	
	Aroclor-1268	1	0.000	0.000	0.000	25	50		
		2	0.000 0.000 0.000		26	60	3.9		



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-2 External Duct Mastic 3rd Floor

La	Lab Sample ID: 24.		24J1726-02			Date(s) Analyzed:		10/16/2024	10/1	6/2024
Ins	strument ID (1):	EC	D10		In	strument ID	(2):	ECI	D10	
G	GC Column (1):		ID:	(mm) GC Column (2):		2):		ID:	(mm)	
[ANALYTE		COL	RT	RT WI	NDOW	CONC	ENTRATION	%RPD	
	70012112	ANALYIE	001		FROM	то				
	Aroclor-1248		1	0.000	0.000	0.000		27		
Ī			2	0.000	0.000	0.000		26	3.8	
Ī	Aroclor-1254		1	0.000	0.000	0.000		30		
Ī			2	0.000	0.000	0.000		28	6.9	
Ī	Aroclor-1260		1	0.000	0.000	0.000		2.4		
			2	0.000	0.000	0.000		3.2	28.6	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-3 External Duct Mastic 4th Floor

Lab Sample ID: 24J1		4J1726-03RE1			ate(s) Analy	zed: 10/17/2024	10/1	7/2024
Ins	strument ID (1):	ECD1	CD1		strument ID	(2): EC	ECD1	
G	C Column (1):	ID:	(mm) GC Column (2):		2):	ID:	(mm)	
	ANALYTE	COL	RT	RT WI	NDOW TO	CONCENTRATION	%RPD	
	Aroclor-1248	1	0.000	0.000	0.000	13		
Ī		2	0.000	0.000	0.000	14	7.4	
Ī	Aroclor-1254	1	0.000	0.000	0.000	14		
Ī		2	0.000	0.000	0.000	12	15.4	
ĺ	Aroclor-1260	1	0.000	0.000	0.000	1.4		
[2	0.000	0.000	0.000	3.0	72.7	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-4 Block Filler 2nd Floor

La	Lab Sample ID: 24		J1726-04		Da	ate(s) Analy	zed: 10/16/2024	10/1	16/2024
In	strument ID (1):	EC	D10		In	strument ID	(2): E	CD10	
G	GC Column (1):		ID:	(mm) GC Column (2):			2):	ID:	(mm)
	ANAI YTE	ANALYTE		RT	RT WINDOW		CONCENTRATION	%RPD]
	, aver the	YTE	COL		FROM	то			
	Aroclor-1248		1	0.000	0.000	0.000	2.9		
			2	0.000	0.000	0.000	2.4	18.9	
	Aroclor-1254		1	0.000	0.000	0.000	5.8		
			2	0.000	0.000	0.000	5.5	5.3]
	Aroclor-1260		1	0.000	0.000	0.000	0.46		
			2	0.000	0.000	0.000	0.59	24.8	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-5 Block Filler 3rd Floor

La	b Sample ID: 24	4J1726-05		Da	ate(s) Analy	zed: 10/15/2024	10/1	5/2024
In	strument ID (1):	ECD10		Instrument ID (2):		(2): EC	ECD10	
G	GC Column (1):		(mm) GC Column (2):		2):	ID:	(mm)	
	ANALYTE	COL	RT		NDOW	CONCENTRATION	%RPD	
				FROM	ТО			
	Aroclor-1248	1	0.000	0.000	0.000	0.45		
		2	0.000	0.000	0.000	0.40	11.8	
	Aroclor-1254	1	0.000	0.000	0.000	0.84		
		2	0.000	0.000	0.000	0.72	16.6	
	Aroclor-1260	1	0.000	0.000	0.000	0.090		
		2	0.000	0.000	0.000	0.077	16.7	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-6 Block Filler 4th Floor

La	b Sample ID:	24J	1726-06		Da	ate(s) Analy	zed: 10/16/20	24 10/1	16/2024
In	strument ID (1):	EC	D10		In	strument ID	(2):	ECD10	
G	GC Column (1):		ID:	(m	ım) G ^ı	C Column (2	2):	ID:	(mm)
	ΑΝΑΙ ΥΤΙ	ANALYTE		RT	RT WI	NDOW	CONCENTRATION	N %RPD]
	700/111		COL		FROM	ТО	CONCENTION		
	Aroclor-12	48	1	0.000	0.000	0.000	6.0]
			2	0.000	0.000	0.000	5.1	16.2]
	Aroclor-12	54	1	0.000	0.000	0.000	8.9		
			2	0.000	0.000	0.000	9.2	3.3	
	Aroclor-12	60	1	0.000	0.000	0.000	0.90		
			2	0.000	0.000	0.000	1.2	28.6	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-7 Tan Door Caulk South

SW-846 8082A Modified

Lab Sample ID: 24.		J1726-07		l	Date(s) Analy	zed: 10/16/2024	10/1	6/2024
Ins	strument ID (1): EC	D3		I	nstrument ID	(2): EC	D3	
GC	GC Column (1):		(mm)		GC Column (2):	ID:	(mm)
	ANALYTE	COL	RT	RT V FROM	VINDOW TO	CONCENTRATION	%RPD	
ľ	Aroclor-1248	1	0.000	0.000	0.000	930		
Ī		2	0.000	0.000	0.000	940	1.1]
	Aroclor-1254	1	0.000	0.000	0.000	220]
ſ		2	0.000	0.000	0.000	220	0.0]



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-8 Gray Door Caulk 2nd & 4th

SW-846 8082A Modified

Lab Sample ID: 24J		1726-08		[Date(s) Analy	zed: 10/15/2024	10/1	5/2024
In	strument ID (1): EC	D3		l	nstrument ID	(2): EC	D3	
G	GC Column (1):		(mm) GC Column (2):		2):	ID:	(mm)	
	ANALYTE	COL	RT	RT W	/INDOW	CONCENTRATION	%RPD	
	Aroclor-1248	1	0.000	0.000	0.000	560		
		2	0.000	0.000	0.000	560	0.0	
	Aroclor-1254	1	0.000	0.000	0.000	120		
		2	0.000	0.000	0.000	140	15.4	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-9 White Door Caulk 2nd

Lab Sample ID: 24J		J1726-09		D	ate(s) Analy	zed: 10/16/2024	10/1	6/2024
In	Instrument ID (1): EC				strument ID	(2): EC	ECD1	
G	C Column (1):	ID:	(m	(mm) GC Column (2):		2):	ID:	(mm)
	ANALYTE	COL	RT	RT W FROM	NDOW TO	CONCENTRATION	%RPD	
	Aroclor-1248	1	0.000	0.000	0.000	29		
		2	0.000	0.000	0.000	32	9.8	
	Aroclor-1254	1	0.000	0.000	0.000	21]
		2	0.000	0.000	0.000	19	10.0	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-10 Internal Duct Mastic Rm 306

Lab Sample ID: 24J17		1J1726-10RE	1	C	ate(s) Analy	zed: 10/17/2024	10/1	7/2024
Ins	strument ID (1):	ECD1	CD1		nstrument ID	(2): E	ECD1	
G	C Column (1):	ID:	(mm)		GC Column (2):	ID:	(mm)
	ANALYTE	COL	RT	RT W FROM	INDOW TO	CONCENTRATION	%RPD	
	Aroclor-1248	1	0.000	0.000	0.000	0.64		
		2	0.000	0.000	0.000	0.63	1.6]
	Aroclor-1254	1	0.000	0.000	0.000	2.3]
		2	0.000	0.000	0.000	2.7	16.0]



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

H-11 Exterior Window Caulk Uppe

SW-846 8082A Modified

Lab Sample ID: 24J		1726-11		C	ate(s) Analy	zed: 10/16/202	4 10/1	6/2024	
In	Instrument ID (1): EC		:D3		I	nstrument ID	(2):	ECD3	
G	GC Column (1):		ID:	(mm)		GC Column (2):		ID:	(mm)
	ANALYT	Ē	COL	RT	RT W	INDOW TO	CONCENTRATION	N %RPD	
	Aroclor-12	248	1	0.000	0.000	0.000	15000		
			2	0.000	0.000	0.000	14000	6.9]
	Aroclor-12	254	1	0.000	0.000	0.000	30000]
			2	0.000	0.000	0.000	31000	3.3]



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

H-12 Exterior Window Glazing Upp

Lab Sample ID: 24.		J1726-12		l	Date(s) Analy	zed: 10/16/2024	10/1	6/2024
Ins	strument ID (1): EC	ECD10		I	nstrument ID	(2): EC	ECD10	
G	C Column (1):	ID:	(mm)		GC Column (;	2):	ID:	(mm)
	ANALYTE	COL	RT	RT V FROM	VINDOW TO	CONCENTRATION	%RPD	
	Aroclor-1248	1	0.000	0.000	0.000	1.7		
		2	0.000	0.000	0.000	1.6	6.1]
	Aroclor-1254	1	0.000	0.000	0.000	7.5]
		2	0.000	0.000	0.000	7.4	1.3	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-13 Exterior Vent Caulk East

3.0

SW-846 8082A Modified

2

0.000

Lab Sample ID: 24.		J1726-13		D	Date(s) Analyzed: 10/1		10/1	5/2024
In	Instrument ID (1): EC		CD3		Instrument ID (2):		CD3	
GC Column (1):		ID:	ID: (mm)		C Column (2	2):	ID:	(mm)
	ANALYTE	COL	RT	RT W	INDOW	CONCENTRATION	%RPD	
				FROM	то		/01 11 2	
	Aroclor-1254	1	0.000	0.000	0.000	33000]

0.000

0.000

34000



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-14 Brick at Rear Door Left

Lab Sample ID: 2		24J1726-14		C	ate(s) Analy	zed: 10/16/2024	10/1	6/2024
Instrument ID (1):		ECD10	D10		nstrument ID	(2): EC	ECD10	
GC Column (1):		ID:	(m	(mm) GC Column (2):		2):	ID:	(mm)
	ANALYTE	COL	RT	RT W FROM	INDOW TO	CONCENTRATION	%RPD	
	Aroclor-1248	1	0.000	0.000	0.000	2.3		
		2	0.000	0.000	0.000	2.0	14.0]
	Aroclor-1254	1	0.000	0.000	0.000	22]
		2	0.000	0.000	0.000	23	4.4	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MH-15 Brick at Rear Door Right

Lab Sample ID:		24J1726-15		C	ate(s) Analy	zed: 10/16/2024	10/1	6/2024
Instrument ID (1):		ECD10		Ir	strument ID	(2): EC	ECD10	
G	C Column (1):	ID:	(m	ım) G	iC Column (ź	2):	ID:	(mm)
	ANALYTE	COL	RT	RT W FROM	INDOW TO	CONCENTRATION	%RPD	
	Aroclor-1248	1	0.000	0.000	0.000	2.9		
		2	0.000	0.000	0.000	2.7	7.1]
	Aroclor-1254	1	0.000	0.000	0.000	6.2]
		2	0.000	0.000	0.000	6.2	0.0]



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS	

SW-846 8082A Modified

Lab Sample ID: B389		9208-BS1		ſ	Date(s) Analy	zed: 10/16/2024	10/1	6/2024	
Instrument ID (1):		CD3		I	nstrument ID	(2): <u>E</u>	ECD3		
GC Column (1):		ID:	(mm)		GC Column (ź	2):	ID:	(mm)	
	ANALYTE	COL	RT	RT V FROM	/INDOW TO	CONCENTRATION	%RPD		
Ī	Aroclor-1016	1	0.000	0.000	0.000	35			
		2	0.000	0.000	0.000	33	5.9		
Ī	Aroclor-1260	1	0.000	0.000	0.000	37]	
		2	0.000	0.000	0.000	35	5.6		



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

SW-846 8082A Modified

Lab Sample ID: B3892		208-BSD1			ate(s) Analy	zed: 10/16/2024	10/1	6/2024	
Instrument ID (1):		CD3		Ir	nstrument ID	(2): E	ECD3		
GC Column (1):		ID:	(mm) GC Column (2):		2):	ID:	(mm)		
ſ	ANALYTE	COL	RT	RT W		CONCENTRATION	%RPD		
	Aroclor-1016	1	0.000	0.000	0.000	34			
		2	0.000	0.000	0.000	32	6.1		
	Aroclor-1260	1	0.000	0.000	0.000	35			
		2	0.000	0.000	0.000	33	5.9		



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS		

Lal	Sample ID: B389248-BS1			D	ate(s) Analy	zed: 10/15/20)24	10/15/2024	
Ins	trument ID (1):	ECD10		In	strument ID	(2):	ECD10		
GC	Column (1):	ID:	(m	ım) G	C Column (2	2):		ID:	(mm)
ſ	ANALYTE	COL	RT	RT W	INDOW TO	CONCENTRATIO	DN %	RPD	
ŀ	Aroclor-1016	1	0.000	0.000	0.000	0.79			
Ī		2	0.000	0.000	0.000	0.79	(0.0]
ſ	Aroclor-1260	1	0.000	0.000	0.000	0.89]
		2	0.000	0.000	0.000	0.91		2.2]



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

La	b Sample ID: B3	B389248-BSD1		[Date(s) Analy	zed: 10/15/202	410/1	5/2024
Ins	strument ID (1):	ECD10		I	nstrument ID	(2): E	ECD10	
GC	C Column (1):	ID:	(m	ım) (GC Column (2	2):	ID:	(mm)
	ANALYTE	COL	RT	RT W FROM	/INDOW TO	CONCENTRATION	I %RPD	
	Aroclor-1016	1	0.000	0.000	0.000	0.75		
		2	0.000	0.000	0.000	0.74	1.3]
Ī	Aroclor-1260	1	0.000	0.000	0.000	0.86]
Ī		2	0.000	0.000	0.000	0.89	3.4]



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

Matrix Spike

La	b Sample ID: B	389248-MS1	1	C	ate(s) Analy	zed: 10/16/2024	10/1	6/2024
Ins	strument ID (1):			Instrument ID (2):				
GC	Column (1):	ID:	(m	ım) G	aC Column (2	2):	ID:	(mm)
[ANALYTE	COL	RT	RT W FROM	INDOW TO	CONCENTRATION	%RPD	
	Aroclor-1016	1	0.000	0.000	0.000	5.7		
		2	0.000	0.000	0.000	5.9	3.5]
	Aroclor-1260	1	0.000	0.000	0.000	25]
		2	0.000	0.000	0.000	35	33.3]



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

La	b Sample ID:B3	89248-MSD	01	C	ate(s) Analy	zed: 10/16/2024	10/1	6/2024
Ins	trument ID (1):			Instrument ID (2):				
GC	Column (1):	ID:	(m	ım) G	iC Column (2	2):	ID:	(mm)
ſ	ANALYTE	COL	RT	RT W FROM	INDOW TO	CONCENTRATION	%RPD	
	Aroclor-1016	1	0.000	0.000	0.000	4.1		
Γ		2	0.000	0.000	0.000	4.3	4.8]
	Aroclor-1260	1	0.000	0.000	0.000	11]
Γ		2	0.000	0.000	0.000	16	37.0]



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS		

Lab Sample ID: B389358-BS1			I	Date(s) Analyzed:		10/16/2024	10/16/2024			
Ins	strument ID (1):	ent ID (1): ECD1			Instrument ID (2		(2):	EC	D1	
GC	C Column (1):		ID:	(m	im)	GC Column (ź	2):		ID:	(mm)
ſ	ANALYTE		COL	RT	RT V FROM	VINDOW TO	CONC	ENTRATION	%RPD	
	Aroclor-1016	;	1	0.000	0.000	0.000		2.8		
			2	0.000	0.000	0.000		3.1	10.2	
	Aroclor-1260		1	0.000	0.000	0.000		3.2]
			2	0.000	0.000	0.000		3.3	3.1	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Sample ID: B389358-BSD1		C	ate(s) Analy	zed: 10/16/2024	10/1	6/2024		
Ins	Instrument ID (1): ECD1			Instrument ID (2):			ECD1	
G	C Column (1):	ID:	(m	ım) C	iC Column (2	2):	ID:	(mm)
	ANALYTE	COL	RT	RT W FROM	INDOW TO	CONCENTRATION	%RPD	
Ī	Aroclor-1016	1	0.000	0.000	0.000	2.9		
Ī		2	0.000	0.000	0.000	3.1	3.3]
Ī	Aroclor-1260	1	0.000	0.000	0.000	3.3]
Ī		2	0.000	0.000	0.000	3.3	0.0]



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS		

La	b Sample ID:	le ID: B389477-BS1		[Date(s) Analyzed:		10/17/2024	10/1	7/2024	
Ins	trument ID (1):	D (1): ECD1				Instrument ID (2):		ECD1		
GC	Column (1):		ID:	(m	ım) (GC Column (2):		ID:	(mm)
ſ	ANALYT	Ē	COL	RT	RT W FROM	/INDOW TO	CONC	CENTRATION	%RPD	
	Aroclor-10)16	1	0.000	0.000	0.000		0.77		
Ī			2	0.000	0.000	0.000		0.78	1.3	
	Aroclor-12	260	1	0.000	0.000	0.000		0.87		
			2	0.000	0.000	0.000		0.84	3.5	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

La	ab Sample ID: B389477-BSD1		C	Date(s) Analyzed:		10/17/2024	10/17/2024			
Ins	trument ID (1): ECD1			Instrument ID (2):		ECD1				
GC	Column (1):		ID:	(m	ım) C	aC Column (2	2):		ID:	(mm)
	ANALYTE	<u>:</u>	COL	RT	RT W FROM	INDOW TO	CONC	ENTRATION	%RPD	
	Aroclor-101	6	1	0.000	0.000	0.000		0.75		
Ī			2	0.000	0.000	0.000		0.78	3.9	
	Aroclor-126	60	1	0.000	0.000	0.000		0.85		
Ī			2	0.000	0.000	0.000		0.84	2.4	



FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
\$	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source
1010-21	sample.



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications	
W-846 8082A in Product/Solid		
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1262	NH,NY,NC,ME,VA,PA	
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA	
Aroclor-1268	NH,NY,NC,ME,VA,PA	
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA	
W-846 8082A in Water		
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA	
Aroclor-1262	NH,NY,NC,ME,VA,PA	
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA	
Aroclor-1268	NH,NY,NC,ME,VA,PA	
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA	



Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025

		E	14 http://	www.contes	http://www.contestlabs.comJZR Doc # 379 Rev 1_03242017	CR Doc	# 379 Rev 1	_03242017			(
CON-test	Phone: 413-525-2332		CONCINENTIAL OF CUSTODY RECORD (North Carolina)	ODY RECORD	(North Caro	(ina)		39 Sp East	39 Spruce Street East Longmeadov	39 Spruce Street East Longmeadow, MA 01028	Page 1 of 🧹
	Fax: 413-525-6405 Email: info@contestlahs.com		7-Dav	10-Day							# of Containers
Company Name:	Matrix Health & Safety Consultants, LLC		Due Date:	EV 5 da	5 day TAT	Ц					² Preservation Code
Address: 2900 Yonkers Road Raleigh		10	Rust	Rush-Approval Required	equired						⁴ Container Code
Phone: 919.833.2520		-	1-Day	3-Day		_		ANALYSIS REQUESTED	REQUEST		Dissolved metals Jumples
Project Name:	NCSU Mann Hall Raleigh, NC		2-Day	4-Day		T					ish to Filter
Address: 2900 Yonkers Road Raleigh	gh			Data	۲ ک						
Project Number:			Format: PDF	L EXCEL		אורנ					Orthophosphate Samples
Project Manager: Gregg E. Heppert	ť		Other:			i ni					Field Filtered
Con-Test Quote Name/Number:			CLP Like Data Pkg Required: Email To:	Pkg Required		PCB					Lab to Filter
Invoice Recipient:		T	Eav To #.			Г					
Sampled By: Gregg E. Heppert		_	-	-	¹ Matrix	Conc					¹ Matrix Codes:
Work Order#	Client Sample ID / Description	Date/Time	0	composite or au	Code	Code					GW = Ground Water WW = Wate Water
	MH-1 External Duct Mastic 2nd Floor	10/8/2024	16 00 ×			×					DW = Drinking Water A = Alr
6	MH-2 External Duct Mastic 3rd Floor	10/8/2024	1610 ×			×					S = Solt SL = Studte
en	MH-3 External Duct Mastic 4th Floor	10/8/2024	1615 ×		_	×			_		SOL = Solid 0 = Other (plaste
1	MH-4 Block Filler 2nd Floor	10/8/2024	1622 ×			×					dafina)
~	MH-5 Block Filler 3rd Floor	10/8/2024	1630 ×			×					2 Broconstion Codes
9	MH-6 Block Filler 4th Floor	10/8/2024 163	1639 ×			×					
t	MH-7 Tan Door Caulk South (Sticky)	10/8/2024 1730	1730 ×			×					M = Methanol
ø	MH-8 Gray Door Caulk 2nd and 4th	10/8/2024	1733 ×			×					S = Sulfuric Acid
0	MH-9 White Door Caulk 2nd	10/8/2024	1740 ×			×					X = Sodium Hydroxide
6	306	10/8/2024	1745×			×	_		_		T = Sodium Thiosulfate
<u>Greag@matrixhsc.com</u>					Please us	e the foll	owing code vithin the (A - Medium	lowing codes to indicate possible sam within the Conc Code column above: w . Medium: L - Low: C - Clean: U -	possible sa plumn above - Clean; U	Please use the following codes to indicate possible sample concentration within the Conc Code column above: H - Hidh: M - Medium: L - Low: C - Clean; U - Unknown	0 = Uther (prease define) 3 fortainer fodes
						0					A = Amber Glass
Retinduished by/ (signature)	Date/Time: 164	z	North Carolina Detection Limit Requirements	Detection Li	mit Requiren	nents		Progra	Program Information	mation	G = Glass P = Plastic
(a)	10/9/2024		2L			C SZO		DSCA cvic Landfill	=		_
Received by tergnature1	PACE Date/Time: 104	⊐⊨	GWPC SWSL			<u>A</u>		IHSB Orpha	HSB Orphaned Landfill]	S = Summa Canister T = Tedlar Bao
a hushed by: (signature)	10	þ	IHSB					State Lead			0 = Other (please
Pa			MSCC			THIOTIST		Other:			define)
ved by: (Date/Time:	Other:						NELAC an	AIHA-LAP,	NELAC and AIHA-LAP, LLC Accredited	
B o quished by: (signature)	Date/Time:	Project Entity	ity Government	unw U	Municipality				Other	Chromatogram	
R ived by: (signature)	Date/Time:		Federal Citv	Brownf School	Brownfield School]	אוווא-דאר ובר]
		1	6								

Table of Contents

	97 LILINC	http://www.contestlabs.com	Doc # 379 Rev 1_03242017	
con-test	Phone: 413-525-2332	0 N	39 Spruce Street East Longmeadow, MA 01028	Page 2 of 2
	Fax: 413-525-6405	Requested Turnaround Time		
	Email: info@contestlabs.com			# of Containers
Company Name:	Matrix Health & Safety Consultants, LLC	Due Date: 5 day TAT		² Preservation Code
Address: 2900 Yonkers Road Raleigh	e	Rush-Approval Required		⁵ Container Code
Phone: 919.833.2520			ANALYSIS REQUESTED	Dissolved Metals Samples
Project Name:	NCSU Mann Hall Raleigh, NC	2-Day U 4-Day		
Address: 2900 Yonkers Road Raleigh	E	Data		
Project Number:		Format: PDF		Orthonhosnhate Samples
Project Manager: Gregg E. Heppert				Field Filtered
Con-Test Quote Name/Number:		CLP Like Data Pkg Required:		Lab to Filter
Invoice Recipient:				
Sampled By: Gregg E. Heppert		Fax 10 #:		1 Martin Parlant
Con-Test Work Order#	Client Sample ID / Description Date/Time	Ending Composite Grab Watrix Conc Date/Time Code Code		GW = Ground Water
() () () () () () () () () () () () () (MH-11 Exterior Window Caulk Upper 10/8/2024	x x x x x x x x x x x x x x x x x x x		DW = Drinking Water
C)	MH-12 Exterior Window Glazing Upper 10/8/2024	1757 × X × ×		S= 501
c.	MH-13 Exterior Vent Caulk East 10/8/2024	1 この × × ×		SOL = Solid
2				deffre)
15	MH-15 Brick at Rear Door Right 10/8/2024	x x Q/L i		2 Disconvation Codes:
				I = Iced
				H = HCL M = Methanol
				N = Nitric Acid S = Sulfuric Acid
				B = Sodium Bisulfate X = Sodium Hydroxide
				T = Sodium Thiosulfate
Gregg@matrixhsc.com		Please use the followin	Please use the following codes to indicate possible sample concentration	
		with H - High; M - N	within the conc code coumin above. H - High; M - Medium; L - Low; C - Clean; U - Unknown	³ Container Codes: A = Amber Glass
Belinguished by (cionalitie)	Date/Time:	North Carolina Detection Limit Requirements	Program Information	_
() w)	10/9/2024		DSCA UST/Trust Fund	
Received by: (signature)		GWPC		V = Viat S = Summa Canister
[-/race 10/9/24		State Lead	T = Tedlar Bag O = Other /olease
Ringhature) D			Other:	define)
R a ved by: (signature)	Date/Time: Other:		NELAC and AlHA-LAP, LLC Accredited	
B O luithed by: (signature)	Date/Time: Project Entity		Other	
		Government Municipality		Non Soxhlet
R ved by: (signature)		םנ		

Table of Contents

			Table of Content	S
ed		Sign Up	or Log In	
	<u>Learn</u> about the impacts of Hurricane Helene and H	lurricane Milton on FedEx services.		
FedEx®	Tracking	Track Another Shipment	Local Scan Time 🗡 🛛 <u>Hel</u>	Þ
Shake u	RUNNER by Fed ax. I p your holiday shopping. Get gifts and excl		SHOP NOW	
9 s 0				3
		DELIVERY STATUS		
Thu		Delivered 🥝		
INU	rsday	🛱 Report missing package		
10/10/2	24 at 9:50 AM			
Signed for	by: L.ARROYO			
.↓. Obtair	n proof of delivery			
	as your delivery?			
य द	3 \$ \$ \$			
	EMAIL TO STAY UPDATED ON THIS SHIPMENT			
Contest	lab39			
X Your emai	il is invalid.			_
GET	UPDATES			
MORE OP	PTIONS			
TRACKING	i ID			
7791278	42011 🖉 🕁			
	FROM RALEIGH, NC US			
	Label Created			
	10/9/24 10:12 AM			
•	WE HAVE YOUR PACKAGE RALEIGH, NC			

10/9/24 4:16 PM

WINDSOR LOCKS, CT 10/10/24 7:59 AM

OUT FOR DELIVERY WINDSOR LOCKS, CT 10/10/24 8:35 AM

	Pace	DC#_Title: ENV-FRM-ELC	DN-0001 v08_Sample Receiving Ch	ecklist	
	INALYTICAL SERVICES	Effective Date: 06/11/2024			
	Log	In Back-Sheet	Login Sample Receipt Checklist – (Reject – Using Acceptance Policy) Any False sta brought to the attention of the Client –	tement will be	
Client	Matrix H.	alth & Splety		True	False
Project MCP/RCP Rec	MCDU	Mann Hall /	Received on Ice		
	ackage Requirem		Received in Cooler	\Box	
Location	Ra	NC	Custody Seal: DATE TIME	,	
PWSID# (Whe	en Applicable)	ng	COC Relinguished		
Arrival Metho	od:		COC/Samples Labels Agree	notes	
Courier 🗖	Fed Ex 🔽 Wall		All Samples in Good Condition		
Received By /	Date / Time	RL 10/10/24 0950	Samples Received within Holding Time	<u> </u>	
	y / Date / Time _		Is there enough Volume	,	
	Method		Proper Media/Container Used		
		/ No (follow normal procedure)	Splitting Samples Required		
	6° C Actual Tem s: Yes / No Not		MS/MSD		
	Yes / No Not		Trip Blanks		
		1.0	Lab to Filters	<u>_</u>	
<u>Notes re</u>	garding Sampl	es/COC outside of SOP:	COC Legible		
	111 -	Ω h	COC Included: (Check all included)		
T NO	Jobuls 1	Ds writta on		iampler Name	
-lalan	hube raps		Project 🗹 IDs 🖸 🤇	Collection Date/Tir	ne 🗳
			All Samples Proper pH: 🜔 N/A		
			Additional Conta	iner Notes	
·			*Note: West Virginia requires all	samples to have i	their
			temperature taken. Note any out	tliers.	
			1		

Qualtrax ID: 120836

Page 1 of 2

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

23DIVES AADITVAAN. Pace

Effective Date: 06/11/2024

		Page 2 of 2														928	150	al x	entiei	סו		
Other / Fill in		pour noolot	-									_					>					
		Col/Bact	+	+	+		+	+	+		+	+	+		+	+	+	+	+	+	+	-
	\neg	BiSulfate						1		1		1		1	+		+		+	\uparrow	+	
		D.I. Water																				
VOA Vials		НОэМ															1			+		
S		нсі											1	1		1		1	1	1	1	
	Ī	Unpreserved																1	İ			
		oniZ\HO _b N																			1	
		ətetəcA muinommA																				
	_[HObN																				
	250mL	Nitric																				
8		Sulfuric																				
Plastics		emzinT																				
		Unpreserved																				
	T	Sulfuric																				
	500mL	Unpreserved																				
	1 Liter	Sulfuric																				
	=	Unpreserved																				
	100mL	Dnpreserved																				
	_	HCI																				
ers	50mL	Phosphoric																				
Ambers	7	Sulfuric																				
	-	Sulfuric																				
	1 Liter	нсг																				
		Unpreserved																				
6	lear)	2oz Amb/Clear																				
Soils Jars	(Circle Amb/Clear)	169ID\dmA 204																				
Soils	cle Ar	3692 Amb/Clear																				
	(Circ	16912\dmA 2031																				
		əlqme2		2	m	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20
<u></u>			-															-				



October 17, 2024

Gregg Heppert Matrix Health & Safety Consultants, LLC 2900 Yonkers Road Raleigh, NC 27604

Project Location: Raleigh, NC Client Job Number: Project Number: [none] Laboratory Work Order Number: 24J1725

Enclosed are results of analyses for samples as received by the laboratory on October 11, 2024. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

ordan Z. hoss

Jordan Zoe Ross Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
24J1725-01	5
24J1725-02	6
24J1725-03	7
24J1725-04	8
Sample Preparation Information	9
QC Data	10
Polychlorinated Biphenyls By GC/ECD	10
B389328	10
Dual Column RPD Report	11
Flag/Qualifier Summary	17
Certifications	18
Chain of Custody/Sample Receipt	19



Matrix Health & Safety Consultants, LLC 2900 Yonkers Road Raleigh, NC 27604 ATTN: Gregg Heppert

REPORT DATE: 10/17/2024

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24J1725

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MHW-1 Basement Duct Internal	24J1725-01	Wipe		SW-846 8082A	
MHW-2 Duct Internal Rm 306	24J1725-02	Wipe		SW-846 8082A	
MHW-3 Internally Lined Duct Rm 306	24J1725-03	Wipe		SW-846 8082A	
MHW-4 Duct Internal Room 207	24J1725-04	Wipe		SW-846 8082A	



CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

fua Watthington

Lisa A. Worthington Technical Representative



Work Order: 24J1725

10/16/24 16:26

Project Location: Raleigh, NC

Date Received: 10/11/2024

Field Sample #: MHW-1 Basement Duct Internal

Sample ID: 24J1725-01

Tetrachloro-m-xylene [2]

Sampled: 10/8/2024 14:30	14:30
--------------------------	-------

77.5

Sample Description:

Sample Matrix: Wipe						T CD				
			Poly	chlorinated Biph	enyls By GC	/ECD				
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.049	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:26	MEW
Aroclor-1221 [1]	ND	0.20	0.093	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:26	MEW
Aroclor-1232 [1]	ND	0.20	0.049	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:26	MEW
Aroclor-1242 [1]	ND	0.20	0.055	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:26	MEW
Aroclor-1248 [2]	0.45	0.20	0.050	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:26	MEW
Aroclor-1254 [2]	0.62	0.20	0.076	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:26	MEW
Aroclor-1260 [1]	0.24	0.20	0.042	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:26	MEW
Aroclor-1262 [1]	ND	0.20	0.052	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:26	MEW
Aroclor-1268 [1]	ND	0.20	0.053	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:26	MEW
Surrogates		% Reco	very	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.3		30-150					10/16/24 16:26	
Decachlorobiphenyl [2]		81.1		30-150					10/16/24 16:26	
Tetrachloro-m-xylene [1]		76.8		30-150					10/16/24 16:26	

30-150



Work Order: 24J1725

Project Location: Raleigh, NC

Date Received: 10/11/2024

Field Sample #: MHW-2 Duct Internal Rm 306

Sample ID: 24J1725-02 Sample Matrix: Wipe Sampled: 10/8/2024 14:39

Sample Description:

De Polychlorinated Biphenyls By GC/ECD

								Date	Date/Time	
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.049	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:43	MEW
Aroclor-1221 [1]	ND	0.20	0.093	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:43	MEW
Aroclor-1232 [1]	ND	0.20	0.049	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:43	MEW
Aroclor-1242 [1]	ND	0.20	0.055	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:43	MEW
Aroclor-1248 [2]	0.30	0.20	0.050	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:43	MEW
Aroclor-1254 [1]	1.2	0.20	0.060	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:43	MEW
Aroclor-1260 [1]	0.55	0.20	0.042	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:43	MEW
Aroclor-1262 [1]	ND	0.20	0.052	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:43	MEW
Aroclor-1268 [1]	ND	0.20	0.053	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 16:43	MEW
Surrogates		% Reco	very	Recovery Limits	;	Flag/Qual				
Decachlorobiphenyl [1]		85.2		30-150					10/16/24 16:43	
Decachlorobiphenyl [2]		82.1		30-150					10/16/24 16:43	
Tetrachloro-m-xylene [1]		77.3		30-150					10/16/24 16:43	
Tetrachloro-m-xylene [2]		77.9		30-150					10/16/24 16:43	



Sample Description:

78.7

Work Order: 24J1725

Project Location: Raleigh, NC Date Received: 10/11/2024

Field Sample #: MHW-3 Internally Lined Duct Rm 306 Sampled: 10/8/2024 14:50

Sa

Tetrachloro-m-xylene [2]

Sample ID: 24J1725-03										
Sample Matrix: Wipe										
			Poly	chlorinated Biph	enyls By GC	/ECD				
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.049	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:00	MEW
Aroclor-1221 [1]	ND	0.20	0.093	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:00	MEW
Aroclor-1232 [1]	ND	0.20	0.049	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:00	MEW
Aroclor-1242 [1]	ND	0.20	0.055	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:00	MEW
Aroclor-1248 [1]	ND	0.20	0.048	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:00	MEW
Aroclor-1254 [1]	0.15	0.20	0.060	µg/Wipe	1	J	SW-846 8082A	10/15/24	10/16/24 17:00	MEW
Aroclor-1260 [1]	0.094	0.20	0.042	µg/Wipe	1	J	SW-846 8082A	10/15/24	10/16/24 17:00	MEW
Aroclor-1262 [1]	ND	0.20	0.052	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:00	MEW
Aroclor-1268 [1]	ND	0.20	0.053	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:00	MEW
Surrogates		% Reco	overy	Recovery Limit	s	Flag/Qual				
Decachlorobiphenyl [1]		84.2		30-150					10/16/24 17:00	
Decachlorobiphenyl [2]		81.6		30-150					10/16/24 17:00	
Tetrachloro-m-xylene [1]		77.6		30-150					10/16/24 17:00	

30-150

10/16/24 17:00 10/16/24 17:00



Sample Description:

Sampled: 10/8/2024 14:55

Project Location: Raleigh, NC

Date Received: 10/11/2024

Field Sample #: MHW-4 Duct Internal Room 207

Sample ID: 24J1725-04

Sample Matrix: Wipe

Polychlorinated Biphenyls By GC/ECD										
Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	0.049	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:18	MEW
Aroclor-1221 [1]	ND	0.20	0.093	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:18	MEW
Aroclor-1232 [1]	ND	0.20	0.049	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:18	MEW
Aroclor-1242 [1]	ND	0.20	0.055	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:18	MEW
Aroclor-1248 [1]	ND	0.20	0.048	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:18	MEW
Aroclor-1254 [2]	1.4	0.20	0.076	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:18	MEW
Aroclor-1260 [2]	0.38	0.20	0.053	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:18	MEW
Aroclor-1262 [1]	ND	0.20	0.052	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:18	MEW
Aroclor-1268 [1]	ND	0.20	0.053	µg/Wipe	1		SW-846 8082A	10/15/24	10/16/24 17:18	MEW
Surrogates		% Reco	very	Recovery Limits	5	Flag/Qual				
Decachlorobiphenyl [1]		87.7		30-150					10/16/24 17:18	
Decachlorobiphenyl [2]		84.2		30-150					10/16/24 17:18	
Tetrachloro-m-xylene [1]		76.9		30-150					10/16/24 17:18	
Tetrachloro-m-xylene [2]		77.7		30-150					10/16/24 17:18	

Work Order: 24J1725



Sample Extraction Data

Prep Method:SW-846 3546 Analytical Method:SW-846 8082A

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date	
24J1725-01 [MHW-1 Basement Duct Internal]	B389328	1.00	10.0	10/15/24	
24J1725-02 [MHW-2 Duct Internal Rm 306]	B389328	1.00	10.0	10/15/24	
24J1725-03 [MHW-3 Internally Lined Duct Rm 306]	B389328	1.00	10.0	10/15/24	
24J1725-04 [MHW-4 Duct Internal Room 207]	B389328	1.00	10.0	10/15/24	



QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
3atch B389328 - SW-846 3546										
Blank (B389328-BLK1)				Prepared: 10	/15/24 Anal	yzed: 10/16/2	24			
Aroclor-1016	ND	0.20	µg/Wipe							
Aroclor-1016 [2C]	ND	0.20	µg/Wipe							
Aroclor-1221	ND	0.20	µg/Wipe							
Aroclor-1221 [2C]	ND	0.20	µg/Wipe							
Aroclor-1232	ND	0.20	µg/Wipe							
Aroclor-1232 [2C]	ND	0.20	µg/Wipe							
Aroclor-1242	ND	0.20	µg/Wipe							
Aroclor-1242 [2C]	ND	0.20	µg/Wipe							
Aroclor-1248	ND	0.20	µg/Wipe							
Aroclor-1248 [2C]	ND	0.20	µg/Wipe							
Aroclor-1254	ND	0.20	µg/Wipe							
Aroclor-1254 [2C]	ND	0.20	µg/Wipe							
Aroclor-1260	ND	0.20	µg/Wipe							
Aroclor-1260 [2C]	ND	0.20	µg/Wipe							
Aroclor-1262	ND	0.20	µg/Wipe							
Aroclor-1262 [2C]	ND	0.20	µg/Wipe							
Aroclor-1268	ND	0.20	µg/Wipe							
Aroclor-1268 [2C]	ND	0.20	µg/Wipe							
Surrogate: Decachlorobiphenyl	1.34		µg/Wipe	2.000		67.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.29		µg/Wipe	2.000		64.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.21		µg/Wipe	2.000		60.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.21		µg/Wipe	2.000		60.7	30-150			
LCS (B389328-BS1)				Prepared: 10	/15/24 Anal	yzed: 10/16/2	24			
Aroclor-1016	0.32	0.20	µg/Wipe	0.5000		63.2	40-140			
Aroclor-1016 [2C]	0.31	0.20	µg/Wipe	0.5000		61.3	40-140			
Aroclor-1260	0.35	0.20	µg/Wipe	0.5000		69.6	40-140			
Aroclor-1260 [2C]	0.32	0.20	µg/Wipe	0.5000		64.2	40-140			
Surrogate: Decachlorobiphenyl	1.29		µg/Wipe	2.000		64.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.24		µg/Wipe	2.000		61.8	30-150			
Surrogate: Tetrachloro-m-xylene	1.16		µg/Wipe	2.000		58.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.17		µg/Wipe	2.000		58.7	30-150			
LCS Dup (B389328-BSD1)				Prepared: 10	/15/24 Anal	yzed: 10/16/2	24			
Aroclor-1016	0.38	0.20	µg/Wipe	0.5000		76.7	40-140	19.3	30	
Aroclor-1016 [2C]	0.36	0.20	µg/Wipe	0.5000		72.8	40-140	17.2	30	
Aroclor-1260	0.41	0.20	µg/Wipe	0.5000		82.0	40-140	16.4	30	
Aroclor-1260 [2C]	0.38	0.20	µg/Wipe	0.5000		75.1	40-140	15.7	30	
Surrogate: Decachlorobiphenyl	1.51		µg/Wipe	2.000		75.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.45		µg/Wipe	2.000		72.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.39		µg/Wipe	2.000		69.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.40		µg/Wipe	2.000		70.2	30-150			



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MHW-1 Basement Duct Internal

La	Lab Sample ID: 24J1725-01			D	ate(s) Analy	zed: 10/16/202	4 10/1	6/2024	
In	strument ID (1): ECD3			In	strument ID	(2): <u> </u>	ECD3		
G	C Column (1):	ID:		(m	ım) G	C Column (ź	2):	ID:	(mm)
	ANALYTE		COL	RT	RT W	NDOW	CONCENTRATION	I %RPD	
	,		002		FROM	то	CONCENTION		
	Aroclor-1248		1	0.000	0.000	0.000	0.40		
			2	0.000	0.000	0.000	0.45	11.8	
	Aroclor-1254		1	0.000	0.000	0.000	0.60		
			2 0.0		0.000	0.000	0.62	3.3	
	Aroclor-1260		1 0.00		0.000	0.000	0.24		
				0.000	0.000	0.000	0.20	18.2	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MHW-2 Duct Internal Rm 306

La	Lab Sample ID: 24J1725-02				Da	Date(s) Analyzed:			10/1	6/2024
In	strument ID (1):	EC	D3		Instrument ID (2):			EC		
GC Column (1):		ID:	(n	ım) G	C Column (ź	2):		ID:	(mm)	
	ANALYTE	E COL		RT			CONCE	INTRATION	%RPD	
	7.00.2112		001		FROM	то				
	Aroclor-1248		1	0.000	0.000	0.000		0.29		
			2	0.000	0.000	0.000		0.30	3.4	
	Aroclor-1254		1	0.000	0.000	0.000		1.2		
				0.000	0.000	0.000		1.1		
	Aroclor-1260		1	0.000	0.000	0.000		0.55		
			2	0.000	0.000	0.000		0.47	15.7	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

HW-3 Internally Lined Duct Rm 30

La	Lab Sample ID: 24J1725-0			C	ate(s) Analy	zed: 10/16/2024	10/1	6/2024	
Instrument ID (1): EC		D3		Ir	nstrument ID	(2): <u>EC</u>	ECD3		
G	C Column (1):	ID:	(mm)		aC Column (2	2):	ID:	(mm)	
	ANALYTE	COL RT		RT W FROM		CONCENTRATION	%RPD		
	Aroclor-1254	1	0.000	0.000	0.000	0.15			
		2	0.000	0.000	0.000	0.14	6.9]	
	Aroclor-1260	1	0.000	0.000	0.000	0.094]	
		2	0.000	0.000	0.000	0.081	14.9		



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

MHW-4 Duct Internal Room 207

La	b Sample ID: 24.	J1725-04		D	ate(s) Analy	zed: 10/16/2024	10/1	6/2024
Instrument ID (1): ECD3		D3		Ir	strument ID	(2): EC	ECD3	
G	GC Column (1): ID		(m	ım) G	C Column (2	2):	ID:	(mm)
	ANALYTE	COL	RT	RT W FROM	INDOW TO	CONCENTRATION	%RPD	
	Aroclor-1254	1	0.000	0.000	0.000	1.3		
		2	0.000	0.000	0.000	1.4	7.4]
	Aroclor-1260	1	0.000	0.000	0.000	0.38]
		2	0.000	0.000	0.000	0.38	0.0]



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS		

Lal	_ab Sample ID: B389328-BS1				Date(s) Analyzed:			10/16/2024	10/1	6/2024
Ins	Instrument ID (1): ECD3		D3		Instrument ID (2):			ECD3		
GC	Column (1):	1): ID		(mm)		GC Column (2):			ID:	(mm)
ſ	ANALYTE		COL R		RT V FROM	/INDOW	CONCE	INTRATION	%RPD	
ŀ	Aroclor-1016		1	0.000	0.000	0.000		0.32		
			2	0.000	0.000	0.000	.000 0.3		3.2	
ſ	Aroclor-1260		1	0.000	0.000	0.000		0.35		
			2	0.000	0.000	0.000		0.32	9.0	



IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

La			328-BSD	1	I	Date(s) Analy	zed: 10/16/202	4 10/1	6/2024
Ins	Instrument ID (1): EC		CD3		I	nstrument ID	(2):	ECD3	
GC	Column (1):	ID:		(mm) G		GC Column (;	2):	ID:	(mm)
ſ	ANALYTE		COL	RT	RT V FROM	/INDOW TO	CONCENTRATION	N %RPD	
	Aroclor-1016	;	1	0.000	0.000	0.000	0.38		
			2 0.000		0.000	0.000	0.36	5.4]
	Aroclor-1260		1	0.000	0.000	0.000	0.41]
			2	0.000	0.000	0.000	0.38	7.6]



FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
t	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
т	Detected by the lands Decession I in it (here at a liberties, standard), therefore, and the constraint of
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332 CERTIFICATIONS

Certified Analyses included in this Report

· · · · ·	
Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NC	North Carolina Div. of Water Quality	652	12/31/2024
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2025

	•	Page of	# of Containers	² Preservation Code	³ Container Code	Dissolved Metals Samples	Field Filtered	Lab to Fitter	Out-of-on-hote Complete	Urthopnosphate samples	I ab to Filter			¹ Matrix Codes: GW = Ground Water	DW = Drinking Water	S = Soil	SOL = Solid SOL = Solid O = Other (nleare	define)	² Preservation Codes: I = Iced	H = HCL M = Methanol	N = Nitric Acid S = Sulfuric Acid	B = Sodium Bisulfate X = Sodium Hydroxide	T = Sodium Thiosulfate	0 = Other (please define)	<u>3 Container Codes:</u> A - Ambar Glace	G = Glass	P = Plastic ST = Sterile	V = Vial S = Summa Canister	T = Tedlar Bag	O = Other (please define)		PCB ONLY	Soxhlet	אסווינית נוחאו
	Doc # 379 Rev 1_03242017	39 Spruce Street East Longmeadow, MA 01028				ANALYSIS REQUESTED																		Please use the following codes to indicate possible sample concentration	within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown	Program Information		SWS Landfill ILER Orohanded Landfill		Other:	NELAC and AHA-LAP. LLC Accredited	Other		AIHA-LAP,LLC
CHAN OF CUSTODY RECORD (North Carolina)	HAIN OF CUSTODY RECORD (North Carolina)	7-Day10-Day	ate:	Rush-Approval Required	1-Day 🔲 3-Day 🔲	2-Day 4-Day	Data	PDF J EXCEL	Other:	Data Pkg Required:	Email Io:	Fax To #:	Ending Composite Grab ¹ Matrix Conc Date/Time Composite Cade	/ <i>针 3</i> 〜 100cm2 Wipe X	ノイ 37 100cm2 Wipe x	/イジロ 100cm2 Wipe x	バイ 5 5 100cm2 Wipe X						Please use the following	withir H - High; M - Me	North Carolina Detertion I imit Requirements		GWPC		MSCC		te	vernment	Federal Brownfield City School	
	Phone: 413-525-2332	labs.com	IS, LLC			NCSU Mann Hall Raleigh, NC							Client Sample ID / Description Beginning Date/Time	MHW-1 Basement Duct Internal 10/8/2024	MHW-2 Duct Internal Rm. 306 10/8/2024	MHW-3 Internally Lined Duct Rm 306 10/8/2024	MHW-4 Duct Internal Room 207 10/8/2024										10°3	0/4/24			20		Date/Time:	
				Company Name:	Address: 2900 Yonkers Road Raleigh	Phone: 919.833.2520	Project Name:	Address: 2900 Yonkers Road Raleigh	Project Number:	Project Manager: Gregg E. Heppert	Con-Test Quote Name/Number:	Invoice Recipient:	Sampled By: Gregg E. Heppert	Con-Test Work Order#	7	7	5	7						<u>Gregg@matrixhsc.com</u>			Relinquished by: (signature)	Received by: (signature)	1 V / V	Relinguismed by: (signature)	e.	My Aug Ta 1.0	Relociationed by: (signature)	Received by: (signature)

Page 19 of 22

	Table of Contents
Federal	Sign Up or Log In
A Learn about the impacts of Hurricane Hele	ene and Hurricane Milton on FedEx services.
FedEx [®] Tracking	Track Another Shipment 🛛 Local Scan Time 💙 🛛 <u>Help</u>
SHOPRUNNER by Fedex. Shake up your holiday shopping. Get gifts a	and exclusive benefits at your favorite stores.
DELIVERED	DELIVERY STATUS
Thursday 10/10/24 at 9:50 AM	Delivered 🤡 🛱 Report missing package
Signed for by: L.ARROYO	
How was your delivery? ☆ ☆ ☆ ☆ ☆ ADD YOUR EMAIL TO STAY UPDATED ON THIS SHIPME	ENT
Contestlab39	
X Your email is invalid.	5
tracking id 779127842011 🖉 ☆	
FROM RALEIGH, NC US	
Label Created 10/9/24 10:12 AM	
• WE HAVE YOUR PACKAGE RALEIGH, NC 10/9/24 4:16 PM	5
• ON THE WAY WINDSOR LOCKS, CT 10/10/24 7:59 AM	

10/10/24 7:59 AM

OUT FOR DELIVERY WINDSOR LOCKS, CT 10/10/24 8:35 AM

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

THE THE LETTERS	Effective Date: 06/11/2024
Log	n Back-Sheet
Client Motrix Ha	
Project NCSU M MCP/RCP Required	ann Hall /
Deliverable Package Requirem	entNonc
LocationKal	igh, NC,
PWSID# (When Applicable)	
Arrival Method:	1
Courier 🗖 Fed Ex 🗹 Walk	(In Othe
Received By / Date / Time	RL 10/10/21 0950
Back-Sheet By / Date / Time _	Man 10/4/24 0428
Temperature Method	<u>Gin # 4</u>
WV samples: Yes (see note*) /	No (follow normal procedure)
Temp < 6º C Actual Tem	perature
Rush Samples: Yes / No Not	ifyNO
Short Hold: Yes / No Noti	

Pace HALLYTICAL SERVICES

Notes regarding Samples/COC outside of SOP:

	-
	-
9	

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy) Any False statement will be brought to the attention of the Client – True or False

	Irue	Faise
Received on Ice	\Box	
Received in Cooler		
Custody Seal: DATE TIME		
COC Relinquished	<u> </u>	
COC/Samples Labels Agree	\square	
All Samples in Good Condition	Ø,	
Samples Received within Holding Time	\square ,	
Is there enough Volume	\square_{j}	
Proper Media/Container Used	\square	
Splitting Samples Required		Ø
MS/MSD		Ø,
Trip Blanks		Ø,
Lab to Filters	\Box_{r}	\square
COC Legible	3	
COC Included: (Check all included)		
Client Analysis Sar	npler Name	ı ۲
Project 🗹 IDs 🗹 Col	lection Date/Time	∍ L
All Samples Proper pH: N/A		
Additional Contain	er Notes	
*Note: West Virginia requires all sa	mples to have th	eir
temperature taken. Note any outlie	ers.	
Hox wipe x4		
I na wipe ~ 1		

Qualtrax ID: 120836

Page 1 of 2

DC#_Title: ENV-FRM-ELON-0001 v08_Sample Receiving Checklist

Effective Date: 06/11/2024

		Page 2 of 2														928	150	0 XI	antie	סי		
Other / Fill in		Col/Bact																				
	\neg	BiSulfate	+			1		1	1	1	1				+	+	-	+	+	+	+	-
		D.I. Water	+				1									-				+	+	
VOA Vials		MeOH									1						1			+	1	-
Ş		HCI			1	1			+			1			-				1	+		
	Ī	Unpreserved															1			1	1	
		oniZ\HO ₆ N																				
	Γ	ətstəc muinommA																				
		HO ^e N																				
	250mL	Nitric																				
8	7	Sulfuric																				
Plastics	[emzinT																				
		Unpreserved																				
	Jul	Sulfuric																				
	500mL	Unpreserved																				
	1 Liter	Sulfuric									2			_								
		Unpreserved																				
	100mL	Dnpreserved																				
		HCI																				
bers	250mL	Phosphoric																				
Amk		Sulfuric																				
		Sulfuric																				
	1 Liter	НСГ																				
		Unpreserved																				
l s	lear)	resiD\dmA soS																				
SJar	mb/C	Teal Amb 204	-		_																	
Soils Jars	Circle Amb/Clear)	769ID\dmA 208																				
	<u>(</u>	169lD\dmA zoð1																				
		əlqms2		2	m	4	⁵	9		00	ရ	10	H	12	13	14	151	16	17	18	19	20



March 22, 2024

Matrix Health & Safety Consultants 2900 Yonkers Road Raleigh, NC 27604

CLIENT PROJECT:Mann Hall NCSUCEI LAB CODE:B245672

CEI

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on March 22, 2024. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

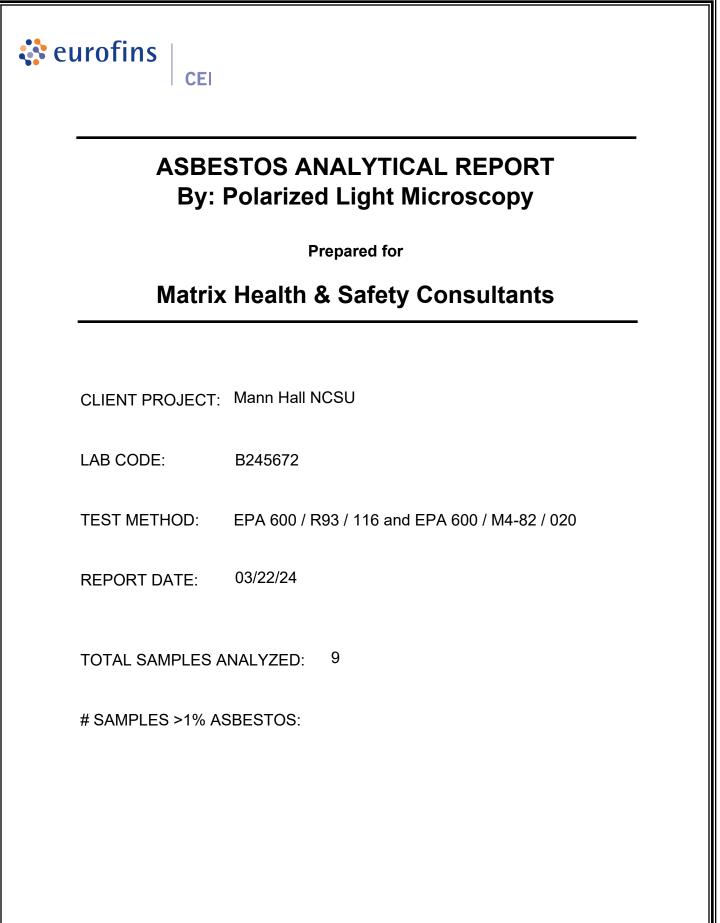
Thank you for your business and we look forward to continuing good relations.

Kind Regards,

Man Sao Di

Tianbao Bai, Ph.D., CIH Laboratory Director





730 SE Maynard Road • Cary, NC 27511 • 919.481.1413



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Mann Hall NCSU

LAB CODE: B245672

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
MHC-1		B245672.01	Tan,White	Door Caulking	None Detected
MHC-2		B245672.02	Tan,White	Door Caulking	None Detected
MHC-3		B245672.03	Tan,White	Door Caulking	None Detected
MHC-4		B245672.04	Tan,White	Door Caulking	None Detected
MHC-5	Layer 1	B245672.05	Tan,White	Door Caulking	None Detected
	Layer 2	B245672.05	Gray	Door Caulking	None Detected
MHC-6		B245672.06	Gray	Door Caulking	None Detected
MHC-7		B245672.07	Gray	Door Caulking	None Detected
MHC-8		B245672.08		No Sample Present in Sample Container	
MHC-9		B245672.09	White	Door Caulking	None Detected
MHC-10		B245672.10	White	Door Caulking	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

CEI

Client: Matrix Health & Safety Consultants 2900 Yonkers Road Raleigh, NC 27604
 Lab Code:
 B245672

 Date Received:
 03-22-24

 Date Analyzed:
 03-22-24

 Date Reported:
 03-22-24

Project: Mann Hall NCSU

Client ID	Lab	Lab	NON-ASBES	TOS COMPOR	NENTS	ASBESTOS		
Lab ID	Description	Attributes	Fibrous	Non-F	ibrous	%		
MHC-1	Door Caulking	Heterogeneous		100%	Caulk	None Detected		
B245672.01		Tan,White		<1%	Paint			
		Non-fibrous						
		Bound						
MHC-2	Door Caulking	Heterogeneous		100%	Caulk	None Detected		
B245672.02		Tan,White		<1%	Paint			
		Non-fibrous						
		Bound						
MHC-3	Door Caulking	Heterogeneous		100%	Caulk	None Detected		
B245672.03		Tan,White		<1%	Paint			
		Non-fibrous						
		Bound						
MHC-4	Door Caulking	Heterogeneous		100%	Caulk	None Detected		
B245672.04		Tan,White		<1%	Paint			
		Non-fibrous						
		Bound						
MHC-5	Door Caulking	Heterogeneous		100%	Caulk	None Detected		
Layer 1		Tan,White		<1%	Paint			
B245672.05		Non-fibrous						
		Bound						
Layer 2	Door Caulking	Heterogeneous		100%	Caulk	None Detected		
B245672.05		Gray		<1%	Paint			
		Non-fibrous						
		Bound						
MHC-6	Door Caulking	Heterogeneous		100%	Caulk	None Detected		
B245672.06		Gray						
		Non-fibrous						
		Bound						



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

CEI

Client: Matrix Health & Safety Consultants 2900 Yonkers Road Raleigh, NC 27604
 Lab Code:
 B245672

 Date Received:
 03-22-24

 Date Analyzed:
 03-22-24

 Date Reported:
 03-22-24

Project: Mann Hall NCSU

ASBESTOS BULK PLM, EPA 600 METHOD									
Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBES Fibrous	STOS COMPOI Non-F	ASBESTOS %				
MHC-7 B245672.07	Door Caulking	Heterogeneous Gray Non-fibrous Bound		100%	Caulk	None Detected			
MHC-8 B245672.08	No Sample Present in Sample Container								
MHC-9 B245672.09	Door Caulking	Heterogeneous White Non-fibrous Bound		100% <1%	Caulk Paint	None Detected			
MHC-10 B245672.10	Door Caulking	Heterogeneous White Non-fibrous Bound		100% <1%	Caulk Paint	None Detected			



CEI

LEGEND:	Non-Anth	= Non-Asbestiform Anthophyllite
	Non-Trem	= Non-Asbestiform Tremolite
	Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID and sample description.

ANALYST:

APPROVED BY:

_____(

Tianbao Bai, Ph.D., CIH Laboratory Director





CHAIN OF CUSTODY

10

LAB USE ONLY:

730 SE Maynard Road, Cary, NC 27511 Tel: 866-481-1412; Fax: 919-481-1442 CEI Lab Code: \$745672

CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION					
CEI CLIENT #:	Job Contact: Gregg E. Heppert					
Company: Matrix Health & Safety Consultants, LLC	Email / Tel: 919.868.2154					
Address: 2900 Yonker s Road	Project Name: Mann Hall NCSU					
Raleigh, NC 27604	Project ID#:					
Email: gregg@matrixhsc.com	PO #:					
Tel: 919.833.25250 Fax:	STATE SAMPLES COLLECTED IN: NC					

CEI

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

化学学 学生	· · · · · · · · · · · · · · · · · · ·		The contraction of the				
ASBESTOS	METHOD	4 HR	8 HR	1 DAY	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600						
PLM POINT COUNT (400)	EPA 600						
PLM POINT COUNT (1000)	EPA 600						
PLM GRAV w POINT COUNT	EPA 600						
PLM BULK	CARB 435	A State					
PCMAIR	NIOSH 7400						
TEM AIR	EPA AHERA						
TEM AIR	NIOSH 7402						
TEM AIR (PCME)	ISO 10312						
TEM AIR	ASTM 6281-15						
TEM BULK	CHATFIELD						
TEM DUST WIPE	ASTM D6480-05 (2010)						
TEM DUST MICROVAC	ASTM D5755-09 (2014)						
TEM SOIL	ASTM D7521-16						
TEM VERMICULITE	CINCINNATI METHOD						
TEM QUALITTATIVE	IN-HOUSE METHOD						
OTHER:							
REMARKS / SPECIAL IN	STRUCTIONS: 3/21	/24				/	
		21			AC AC	cept Sampl	es
					Re Re	eject Sample	es
Belinguished By:	Date/Time	Stand State	Receiv	ved By:	私 "我	Date/Time	
Chill	3/22/24		cn	m	03/22	24	9:40

Samples will be disposed of 30 days after analysis

drop. off

Page ____ of ____ Version: CCOC.01.18.1/2.LD



SAMPLING FORM

CEI

COMPANY CONTACT INFORMATION	
Company: Matrix Health & Safety Consultants, LLC	Job Contact: Gregg E. Heppert
Project Name: Mann Hall NCSU	
Project ID #:	Tel: 919.868.2154

		VOLUME/		A The The
SAMPLE ID#	DESCRIPTION / LOCATION	AREA	And a second	EST
	Tan Door Caulking 2nd Floor Stair West		PLM X	TEM
MHC-2	Tan " " Room 320		PLM	TEM
MHC-3 -	Tan " " Room 301		PLM	TEM
MHC-4	Tan " " Room 430		PLM	TEM
MHC-5	Tan and Gray " " Room 414		PLM	TEM
MHC-6 、	Gray Door Caulk Room 201		PLM	TEM
MHC-7 -	Gray Door Caulk Room 400		PLM	TEM
MHC-8	Gray Door Caulk Room 404		PLM	TEM
MHC-9 _	White Door Caulk Room 212		PLM	TEM
MHC-10	White Door Caulk Room 217		PLM	TEM
			PLM	TEM []
			PLM	TEM



Limited XRF Lead-Based Paint Inspection

March 24, 2024

Conducted At: North Carolina State University Mann Hall

Prepared For:

NC State University Design & Construction Box 7520 2601 Wolf Village Way Raleigh, North Carolina 27695-7520 Attn: Mike Bell, PMP, PEM

Provided by: Matrix Health & Safety Consultants, L.L.C. NC Certified Lead-Based Paint Firm No. FPB-00122 Brian A. Gustafson: NC Certified Lead-Based Paint Risk Assessor No. 120100

Matrix Job #240351

PROJECT INFORMATION

Matrix Health & Safety Consultants, L.L.C. (Matrix) is pleased to present this report of the limited survey to identify lead-based paint in Mann Hall located on the campus of North Carolina State University, in Raleigh, North Carolina. This inspection report includes analytical methods and limitations, discussion of XRF procedures and summary of findings.

Brian A. Gustafson (NC Certified Lead-Based Paint Risk Assessor No. 120100) performed the limited lead-based paint survey at the subject building on March 22, 2024. Only the interior of the building was included in the limited survey.

INSPECTION PROCEDURES

The Lead-Based Paint (LBP) survey began with our inspector/risk assessor walking the subject area and determining testing combinations and test locations. After the testing strategy was determined, Matrix used a Viken Pb200i Lead Paint Spectrum Analyzer (XRF) to determine the lead content (mg/cm2) of painted surfaces/components in the subject area. For the purpose of this survey, paints or components with concentrations of **1.0 mg/cm2 or greater** were considered lead-based.

LEAD-BASED PAINT SURVEY RESULTS

Below you will find a chart summarizing identified lead-based paints with concentrations greater than or equal to 1.0 mg/cm2 at Mann Hall. However, detectable lead quantities less than 1.0 mg/cm² may constitute a lead dust hazard even though it is not a lead-based paint as defined by Federal Standards. For a list of all surfaces tested and XRF results, refer to the attached XRF Testing Report.

10050 - Maini n		ior results			
COMPONENT	SUBSTRATE	COLOR	LOCATION	LEAD CONTENT (mg/cm2)	CONDITION
Baseboards	Ceramic	Gray	Throughout	1.3-1.7	Intact
Elevator Door	Metal	White	Hallway (all floors)	1.3-1.4	Intact
Railings	Metal	Red	Stairwells and West Entry	1.0-6.4	Intact
Stair Riser and Stringer	Metal	Red	Stairwells	2.8-8.1	Intact
Railings	Metal	Gray	Room 100 and	2.3-	Intact-
		L L	Room 111	16.8	Deteriorated
I-Beams /	Metal	Red /	Room 100	1.0	Intact
Structural Steel		Yellow			

NCSU – Mann Hall (XRF) Interior Results

RECOMMENDATIONS

Additionally, Matrix recommends that activities that cause the disturbance of lead-based components be performed by North Carolina Certified workers and supervisors. The Occupational Safety and Health Administration (OSHA) Lead in Construction Standard states that "negative" readings (i.e. those below the HUD/EPA definition of what constitutes LBP [1.0 mg/cm2] **does not** relieve contractors from performing exposure assessments (personal air monitoring) on their employees per the OSHA Lead Standard, and should not be interpreted as lead free. Although a reading may indicate "negative", airborne lead concentrations still may exceed the OSHA Action Level or the OSHA Permissible exposure limit (PEL) depending on the work activity. For additional information including removal requirements and worker protection refer to OSHA Standard 29 CFR 1926.62.

QUALIFICATIONS

This report summarizes Matrix's evaluation of the conditions observed at the subject property during the course of the limited survey to identify lead-based paints. Our findings are based upon our observations at the property and XRF testing performed at the time of this survey. Additional lead-based paints/components may exist in other portions of the subject area but were undetected due to inaccessibility or due to an imperceptible change in paints. Any conditions discovered which deviate from the data contained in this report should be presented to us for our evaluation. This survey was not performed in order to meet requirements for lead-based paint inspections for target housing or child occupied facilities.

Matrix appreciates the opportunity to have provided these services. We would be glad to discuss any of the results contained in this report, at your convenience. If there are any questions concerning this report or results, please contact us.

Sincerely, MATRIX HEALTH AND SAFETY CONSULTANTS, L.L.C.

Brian A. Gustafson Project Manager NC Certified Lead-Based Paint Risk Assessor No. 120100

XRF Testing Report



Matrix Health & Safety Consultants, LLC 2900 Yonkers Road Raleigh, NC 27604

INSPECTION SITE:North Carolina State University
Mann HallINSPECTION DATE:3/22/2024 - 3/22/2024INSTRUMENT TYPE:Viken Detection
Pb200i XRF Lead Paint Analyzer
3100ACTION LEVEL:1.0 (mg/cm²)STATEMENT:Brian A. Gustafson NC#120100

 Inspection Date:
 3/22/2024 - 3/22/2024

 Action Level:
 1.0 (mg/cm²)

 Total Readings:
 25

 Unit Started:
 03/22/2024 09:38:41

 Unit Ended:
 03/22/2024 11:04:59

Inspection Site:

Read #	Result	RTA Present	COMPONEN	ITSUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	Lead (mg/cm ²)	Mode
1 (CAL)		Off			Calibration					1.0 mg/cm ²	Action Level
3 (CAL)		Off			Calibration					1.0 mg/cm ²	Action Level
7 💌	Positive	Off	BaseBoard	Ceramic	С	Intact	Gray	First	Hall	1.4 mg/cm ²	Action Level
14 💽	Positive	Off	elevator door	Metal	D	Intact	White	First	Hall	1.4 mg/cm ²	Action Level
17	Positive	Off	BaseBoard	Ceramic	В	Intact	Gray	First		1.7 mg/cm ²	Action Level
24 🥶	Positive	Off	Railing	Metal	Α	Intact	Red	First	Hall	6.4 mg/cm ²	Action Level
33	Positive	Off	BaseBoard	Ceramic	D	Intact	Gray	First		1.5 mg/cm ²	Action Level
48 💽	Positive	Off	Railing	Metal	В	Intact	Red	First	Stairwel	1.0 mg/cm ²	Action Level
49 💽	Positive	Off	Riser	Metal	В	Intact	Red	First		8.1 mg/cm ²	Action Level
50 💽	Positive	Off	Stringer	Metal	В	Intact	Red	First		2.8 mg/cm ²	Action Level
55 💌	Positive	Off	Door Lintel	Metal	В	Intact	Red	First		6.8 mg/cm ²	Action Level
62	Positive	Off	BaseBoard	Ceramic	В	Intact	Gray	First		1.4 mg/cm ²	Action Level
65 💽	Positive	Off	Railing	Metal	Α	Deteriorated	Gray	First		2.3 mg/cm ²	Action Level
67 🧾	Positive	Off	Railing	Metal	С	Intact	Gray	First	100	16.8 mg/cm ²	Action Level
68 💽	Positive	Off	ibeam	Metal	D	Intact	Red	First		1.0 mg/cm ²	Action Level
71	Positive	Off	Railing	Metal	D	Intact	Red	First	Stairwel	6.4 mg/cm ²	Action Level
73	Positive	Off	Riser	Metal	D	Intact	Red	First	Stairwell	6.7 mg/cm ²	Action Level
74	Positive	Off	Stringer	Metal	D	Intact	Red	First	Stairwel	6.7 mg/cm ²	Action Level

Inspection Date:	3/22/2024 - 3/22/2024
Action Level:	1.0 (mg/cm ²)
Total Readings:	25
Unit Started:	03/22/2024 09:38:41
Unit Ended:	03/22/2024 11:04:59

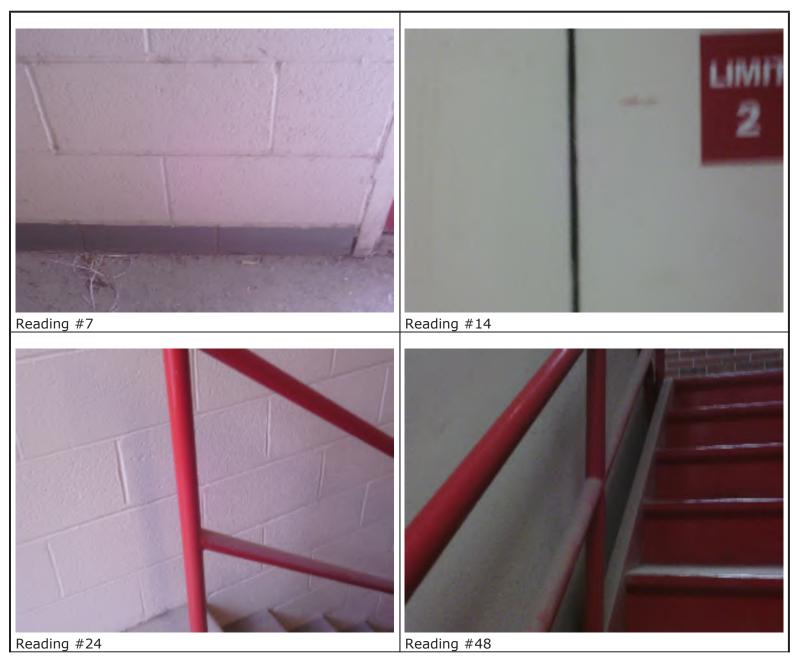
Inspection Site:

North Carolina State University Mann Hall

Read #	Result	RTA Present	COMPONEN	ITSUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	lLead (mg/cm²)	Mode
75	Positive	Off	Railing	Metal	D	Intact	Red	First	Stairwel	15.4 mg/cm ²	Action Level
79	Positive	Off	BaseBoard	Ceramic	А	Intact	Gray	Second	200	1.5 mg/cm ²	Action Level
84 💌	Positive	Off	elevator door	Metal	D	Intact	White	Second	201	1.3 mg/cm ²	Action Level
93	Positive	Off	BaseBoard	Ceramic	С	Intact	Gray	Second	211	1.3 mg/cm ²	Action Level
125	Positive	Off	BaseBoard	Ceramic	D	Intact	Gray	Forth	Hall	1.4 mg/cm ²	Action Level
128	Positive	Off			Calibration					1.1 mg/cm ²	Action Level
129	Positive	Off			Calibration					1.0 mg/cm ²	Action Level

----- END OF READINGS ------

Selected images...



Matrix Health & Safety Consultants, LLC 2900 Yonkers Road Raleigh, NC 27604







Matrix Health & Safety Consultants, LLC 2900 Yonkers Road Raleigh, NC 27604

INSPECTION SITE:North Carolina State University
Mann HallINSPECTION DATE:3/22/2024 - 3/22/2024INSTRUMENT TYPE:Viken Detection
Pb200i XRF Lead Paint Analyzer
3100ACTION LEVEL:1.0 (mg/cm²)STATEMENT:Brian A. Gustafson NC#120100

 Inspection Date:
 3/22/2024 - 3/22/2024

 Action Level:
 1.0 (mg/cm²)

 Total Readings:
 129

 Unit Started:
 03/22/2024 09:38:41

 Unit Ended:
 03/22/2024 11:04:59

Inspection Site:

Read #	Result	RTA Present	COMPONEN	TSUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	MLead (mg/cm ²)	Mode
1 (CAL)		Off			Calibration					1.0 mg/cm ²	Action Level
3 (CAL)		Off			Calibration					1.0 mg/cm ²	Action Level
7 💌	Positive	Off	BaseBoard	Ceramic	С	Intact	Gray	First	Hall	1.4 mg/cm ²	Action Level
8	Negative	Off	Wall	Cinderblock	С	Intact	White	First	Hall	0.0 mg/cm ²	Action Level
9	Negative	Off	Door Casing	Metal	С	Intact	White	First	Hall	0.4 mg/cm ²	Action Level
10	Negative	Off	Door	Metal	С	Intact	Red	First	Hall	0.1 mg/cm ²	Action Level
11	Negative	Off	Door	Metal	D	Intact	Red	First	Hall	0.1 mg/cm ²	Action Level
12	Negative	Off	Door Casing	Metal	D	Intact	White	First	Hall	0.2 mg/cm ²	Action Level
13	Negative	Off	elevator dr csng	Metal	D	Intact	White	First	Hall	0.5 mg/cm ²	Action Level
14 💽	Positive	Off	elevator door	Metal	D	Intact	White	First	Hall	1.4 mg/cm ²	Action Level
15	Negative	Off	Door Casing	Metal	В	Intact	White	First	Hall	0.5 mg/cm ²	Action Level
16	Negative	Off	Door	Wood	В	Intact	Stain	First	Hall	0.0 mg/cm ²	Action Level
17	Positive	Off	BaseBoard	Ceramic	В	Intact	Gray	First	Hall	1.7 mg/cm ²	Action Level
18	Negative	Off	Wall	Cinderblock	A	Intact	Gray	First	Hall	0.0 mg/cm ²	Action Level
19	Negative	Off	Wall	Cinderblock	С	Intact	Gray	First	Hall	0.1 mg/cm ²	Action Level
20	Negative	Off	Door Casing	Metal	A	Intact	White	First	Hall	0.4 mg/cm ²	Action Level
21	Negative	Off	Door	Wood	А	Intact	Stain	First	Hall	0.0 mg/cm ²	Action Level
22	Negative	Off	Door	Metal	D	Intact	Red	First	Hall	0.1 mg/cm ²	Action Level

 Inspection Date:
 3/22/2024 - 3/22/2024

 Action Level:
 1.0 (mg/cm²)

 Total Readings:
 129

 Unit Started:
 03/22/2024 09:38:41

 Unit Ended:
 03/22/2024 11:04:59

Inspection Site:

Read #	Result	RTA Present	COMPONEN	TSUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	1Lead (mg/cm ²)	Mode
23	Negative	Off	Door Casing	Metal	D	Intact	White	First	Hall	0.2 mg/cm ²	Action Level
24 🔟	Positive	Off	Railing	Metal	А	Intact	Red	First	Hall	6.4 mg/cm ²	Action Level
25	Negative	Off	lockers	Metal	А	Intact	Tan	First	Hall	0.1 mg/cm ²	Action Level
26	Negative	Off	conduit	Metal	А	Intact	White	First	Hall	0.1 mg/cm ²	Action Level
27	Negative	Off	Door Casing	Metal	D	Intact	White	First	Hall	0.3 mg/cm ²	Action Level
28	Negative	Off	Door	Wood	D	Intact	Stain	First	Hall	0.0 mg/cm ²	Action Level
29	Negative	Off	Door	Metal	D	Intact	Red	First	Hall	0.0 mg/cm ²	Action
30	Negative	Off	Door Casing	Metal	D	Intact	White	First	Hall	0.4 mg/cm ²	Action
31	Negative	Off	Wall	Cinderblock	D	Intact	White	First	Hall	0.1 mg/cm ²	Action
32	Negative	Off	Ceiling	Concrete	D	Intact	Black	First	Hall	0.2 mg/cm ²	Action
33	Positive	Off	BaseBoard	Ceramic	D	Intact	Gray	First	Hall	1.5 mg/cm ²	Action
34	Negative	Off	Door Casing	Metal	С	Intact	White	First	Hall	0.5 mg/cm ²	Action
35	Negative	Off	Door	Metal	С	Intact	Red	First	Hall	0.0 mg/cm ²	Action
36	Negative	Off	Wall	Cinderblock	А	Intact	White	First	122	0.1 mg/cm ²	Action
37	Negative	Off	Door Casing	Metal	С	Intact	White	First	122	0.3 mg/cm ²	Action
38	Negative	Off	Door	Metal	С	Intact	White	First	122	0.2 mg/cm ²	Action
39	Negative	Off	Door	Metal	Α	Intact	White	First	122	0.0 mg/cm ²	Action
40	Negative	Off	Door Casing	Metal	А	Intact	White	First	122	0.3 mg/cm ²	Action

 Inspection Date:
 3/22/2024 - 3/22/2024

 Action Level:
 1.0 (mg/cm²)

 Total Readings:
 129

 Unit Started:
 03/22/2024 09:38:41

 Unit Ended:
 03/22/2024 11:04:59

Inspection Site:

Read #	Result	RTA Present	COMPONEN	TSUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	Lead (mg/cm ²)	Mode
41	Negative	Off	Door Casing	Metal	А	Intact	White	First	122	0.2 mg/cm ²	Action Level
42	Negative	Off	Door	Metal	А	Intact	White	First	122	0.1 mg/cm ²	Action Level
43	Negative	Off	Cabinet	Metal	В	Intact	Green	First	122	0.0 mg/cm ²	Action Level
44	Negative	Off	Cabinet	Metal	В	Intact	Green	First	122	0.0 mg/cm ²	Action Level
45	Negative	Off	Wall	Cinderblock	В	Intact	White	First	122	0.0 mg/cm ²	Action Level
46	Negative	Off	Door Casing	Metal	В	Intact	White	First	122	0.3 mg/cm ²	Action
47	Negative	Off	Wall	Drywall	В	Intact	White	First	Stairwell	0.1 mg/cm ²	Action
48 💽	Positive	Off	Railing	Metal	В	Intact	Red	First	Stairwel	1.0 mg/cm ²	Action
49 💽	Positive	Off	Riser	Metal	В	Intact	Red	First	Stairwell	8.1 mg/cm ²	Action
50 💽	Positive	Off	Stringer	Metal	В	Intact	Red	First	Stairwel	2.8 mg/cm ²	Action Level
51	Negative	Off	Door Casing	Metal	D	Intact	Red	First	Stairwell	0.4 mg/cm ²	Action
52	Negative	Off	Door	Metal	D	Intact	Red	First	Stairwel	0.1 mg/cm ²	Action Level
53	Negative	Off	Wall	Ceramic	D	Intact	Gray	First	mens	0.2 mg/cm ²	Action
54	Negative	Off	Floor	Ceramic	D	Intact	White	First	mens	0.1 mg/cm ²	Action Level
55 💽	Positive	Off	Door Lintel	Metal	В	Intact	Red	First	Hall	6.8 mg/cm ²	Action
56	Negative	Off	Wall	Brick	А	Intact	White	First	118	0.2 mg/cm ²	Action
57	Negative	Off	Ceiling	Plaster	А	Intact	White	First	118	0.0 mg/cm ²	Action
58	Negative	Off	Wall	Drywall	В	Intact	White	First	114	0.0 mg/cm ²	Action

 Inspection Date:
 3/22/2024 - 3/22/2024

 Action Level:
 1.0 (mg/cm²)

 Total Readings:
 129

 Unit Started:
 03/22/2024 09:38:41

 Unit Ended:
 03/22/2024 11:04:59

Inspection Site:

Read #	Result	RTA Present	COMPONEN	NTSUBSTRATE	SIDE	CONDITION	l Color	Floor	ROOM	Lead (mg/cm²)	Mode
59	Negative	Off	Wall	Concrete	D	Intact	White	First	114	0.2 mg/cm ²	Action Level
60	Negative	Off	Door Casing	Metal	В	Intact	White	First	114	0.1 mg/cm ²	Action Level
61	Negative	Off	Door	Wood	В	Intact	Stain	First	114	0.0 mg/cm ²	Action Level
62	Positive	Off	BaseBoard	Ceramic	В	Intact	Gray	First	114	1.4 mg/cm ²	Action Level
63	Negative	Off	Wall	Cinderblock	В	Intact	White	First	113	0.3 mg/cm ²	Action Level
64	Negative	Off	Wall	Cinderblock	А	Intact	White	First	111	0.0 mg/cm ²	Action Level
65 횓	Positive	Off	Railing	Metal	Α	Deteriorated	Gray	First	111	2.3 mg/cm ²	Action Level
66	Negative	Off	ahu	Metal	С	Intact	White	First	111	0.1 mg/cm ²	Action Level
67 🗾	Positive	Off	Railing	Metal	С	Intact	Gray	First	100	16.8 mg/cm ²	Action Level
68 💽	Positive	Off	ibeam	Metal	D	Intact	Red	First	100	1.0 mg/cm ²	Action Level
69	Negative	Off	Wall	Cinderblock	Α	Intact	White	First	102	0.0 mg/cm ²	Action Level
70	Negative	Off	Railing	Metal	D	Intact	Red	First	Stairwel	0.2 mg/cm ²	Action Level
71	Positive	Off	Railing	Metal	D	Intact	Red	First	Stairwel	16.4 mg/cm ²	Action Level
72	Negative	Off	Stringer	Metal	D	Intact	Red	First	Stairwel	0.2 mg/cm ²	Action Level
73	Positive	Off	Riser	Metal	D	Intact	Red	First	Stairwel	16.7 mg/cm ²	Action Level
74	Positive	Off	Stringer	Metal	D	Intact	Red	First	Stairwel	6.7 mg/cm ²	Action Level
75	Positive	Off	Railing	Metal	D	Intact	Red	First	Stairwel	15.4 mg/cm ²	Action
76	Negative	Off	Fence	Metal	D	Intact	Red	First	Stairwel	0.0 mg/cm ²	Action Level

 Inspection Date:
 3/22/2024 - 3/22/2024

 Action Level:
 1.0 (mg/cm²)

 Total Readings:
 129

 Unit Started:
 03/22/2024 09:38:41

 Unit Ended:
 03/22/2024 11:04:59

Inspection Site:

Read #	Result	RTA Present	COMPONEN	TSUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	Lead (mg/cm ²)	Mode
77	Negative	Off	Wall	Metal	D	Intact	White	First	elevator	0.2 mg/cm ²	Action Level
78	Negative	Off	Wall	Cinderblock	D	Intact	White	Second	200	0.0 mg/cm ²	Action Level
79	Positive	Off	BaseBoard	Ceramic	А	Intact	Gray	Second	200	1.5 mg/cm ²	Action Level
80	Negative	Off	Door Casing	Metal	А	Intact	Gray	Second	200	0.4 mg/cm ²	Action Level
81	Negative	Off	Door Casing	Metal	В	Intact	White	Second	201	0.2 mg/cm ²	Action Level
82	Negative	Off	Wall	Cinderblock	В	Intact	Blue	Second	201	0.1 mg/cm ²	Action Level
83	Negative	Off	elevator dr csng	Metal	D	Intact	White	Second	201	0.5 mg/cm ²	Action
84 횓	Positive	Off	elevator door	Metal	D	Intact	White	Second	201	1.3 mg/cm ²	Action
85	Negative	Off	Door Casing	Metal	D	Intact	White	Second	Hall	0.5 mg/cm ²	Action
86	Negative	Off	Door	Metal	D	Intact	Red	Second	Hall	0.0 mg/cm ²	Action Level
87	Negative	Off	Door	Wood	В	Intact	Stain	Second	Hall	0.0 mg/cm ²	Action
88	Negative	Off	Door Casing	Metal	В	Intact	White	Second	Hall	0.4 mg/cm ²	Action Level
89	Negative	Off	Wall	Cinderblock	В	Intact	White	Second	206	0.0 mg/cm ²	Action
90	Negative	Off	Wall	Concrete	В	Intact	White	Second	206	0.1 mg/cm ²	Action
91	Negative	Off	Door	Metal	А	Intact	Red	Second	lobby	0.0 mg/cm ²	Action
92	Negative	Off	Door Casing	Metal	С	Intact	White	Second	211	0.4 mg/cm ²	Action
93	Positive	Off	BaseBoard	Ceramic	С	Intact	Gray	Second	211	1.3 mg/cm ²	Action
94	Negative	Off	Wall	Cinderblock	D	Intact	White	Second	210	0.0 mg/cm ²	Action

 Inspection Date:
 3/22/2024 - 3/22/2024

 Action Level:
 1.0 (mg/cm²)

 Total Readings:
 129

 Unit Started:
 03/22/2024 09:38:41

 Unit Ended:
 03/22/2024 11:04:59

Inspection Site:

North Carolina State University Mann Hall

Read #	Result	RTA Present	COMPONEN	TSUBSTRATE	SIDE	CONDITION	Color	Floor	ROOI	MLead (mg/cm ²)	Mode
95	Negative	Off	Door Casing	Metal	D	Intact	White	Second	210	0.2 mg/cm ²	Action Level
96	Negative	Off	Door	Wood	D	Intact	Stain	Second	210	0.1 mg/cm ²	Action Level
97	Negative	Off	Wall	Ceramic	D	Intact	Gray	Second	mens	0.1 mg/cm ²	Action Level
98	Negative	Off	Floor	Ceramic	D	Intact	Gray	Second	mens	0.2 mg/cm ²	Action Level
99	Negative	Off	Wall	Cinderblock	С	Intact	White	Second	Hall	0.0 mg/cm ²	Action Level
100	Negative	Off	Door Casing	Metal	С	Intact	White	Second	Hall	0.5 mg/cm ²	Action Level
101	Negative	Off	Door Casing	Metal	D	Intact	White	Third	301	0.1 mg/cm ²	Action Level
102	Negative	Off	Wall	Cinderblock	D	Intact	White	Third	301	0.0 mg/cm ²	Action
103	Negative	Off	Wall	Cinderblock	А	Intact	White	Third	301	0.0 mg/cm ²	Action
104	Negative	Off	Wall	Cinderblock	В	Intact	White	Third	306	0.0 mg/cm ²	Action
105	Negative	Off	Door Casing	Metal	В	Intact	White	Third	306	0.4 mg/cm ²	Action
106	Negative	Off	Door Casing	Metal	А	Deteriorated	White	Third	306	0.4 mg/cm ²	Action
107	Negative	Off	Wall	Cinderblock	В	Deteriorated	White	Third	306	0.0 mg/cm ²	Action
108	Negative	Off	Wall	Cinderblock	А	Intact	White	Third	Hall	0.3 mg/cm ²	Action
109	Negative	Off	Wall	Metal	С	Intact	White	Third	316	0.3 mg/cm ²	Action
110	Negative	Off	Door Casing	Metal	С	Intact	White	Third	316	0.4 mg/cm ²	Action
111	Negative	Off	Door Casing	Metal	С	Intact	White	Third	319	0.0 mg/cm ²	Action
112	Negative	Off	Wall	Drywall	С	Intact	White	Third	319	0.0 mg/cm ²	Action

Matrix Health & Safety Consultants, LLC 2900 Yonkers Road Raleigh, NC 27604

 Inspection Date:
 3/22/2024 - 3/22/2024

 Action Level:
 1.0 (mg/cm²)

 Total Readings:
 129

 Unit Started:
 03/22/2024 09:38:41

 Unit Ended:
 03/22/2024 11:04:59

Inspection Site:

Read #	Result	RTA Present	COMPONEN	NTSUBSTRATE	SIDE	CONDITION	Color	Floor	ROOM	Lead (mg/cm ²)	Mode
113	Negative	Off	Wall	Cinderblock	С	Intact	White	Third	319	0.0 mg/cm ²	Action Level
114	Negative	Off	Door Casing	Metal	D	Intact	White	Third	Hall	0.4 mg/cm ²	Action
115	Negative	Off	Door	Metal	D	Intact	Red	Third	Hall	0.2 mg/cm ²	Action Level
116	Negative	Off	Door Casing	Metal	А	Intact	White	Third	326	0.3 mg/cm ²	Action Level
117	Negative	Off	Wall	Cinderblock	D	Intact	White	Third	326	0.0 mg/cm ²	Action Level
118	Negative	Off	Wall	Cinderblock	D	Intact	White	Forth	Hall	0.1 mg/cm ²	Action Level
119	Negative	Off	Wall	Drywall	D	Intact	White	Forth	431	0.2 mg/cm ²	Action
120	Negative	Off	Wall	Cinderblock	D	Intact	White	Forth	431	0.1 mg/cm ²	Action
121	Negative	Off	Wall	Cinderblock	А	Intact	White	Forth	Hall	0.1 mg/cm ²	Action
122	Negative	Off	Door Casing	Metal	А	Intact	White	Forth	Hall	0.1 mg/cm ²	Action
123	Negative	Off	Door Casing	Metal	А	Intact	White	Forth	Hall	0.2 mg/cm ²	Action
124	Negative	Off	Door Casing	Metal	С	Intact	White	Forth	Hall	0.2 mg/cm ²	Action
125	Positive	Off	BaseBoard	Ceramic	D	Intact	Gray	Forth	Hall	1.4 mg/cm ²	Action Level
126	Negative	Off	Door	Metal	D	Intact	Red	Forth	Hall	0.1 mg/cm ²	Action Level
127	Negative	Off	Door Casing	Metal	D	Intact	White	Forth	Hall	0.0 mg/cm ²	Action
128	Positive	Off			Calibration					1.1 mg/cm ²	Action
129	Positive	Off			Calibration					1.0 mg/cm ²	Action
130	Negative	Off			Calibration					0.9 mg/cm ²	Action Level

Inspection Date:	3/22/2024 - 3/22/2024
Action Level:	1.0 (mg/cm ²)
Total Readings:	129
Unit Started:	03/22/2024 09:38:41
Unit Ended:	03/22/2024 11:04:59

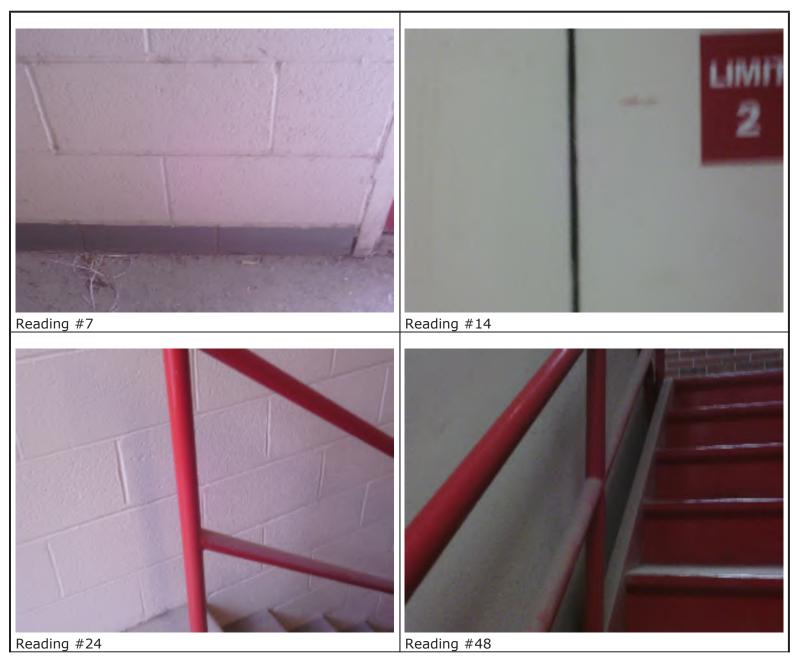
Inspection Site:

North Carolina State University Mann Hall

Read #	Result	RTA Present	COMPONENTSUBSTRATE SIDE	CONDITION Color	Floor	ROOMLead (mg/cm ²)	Mode
131	Negative	Off	Calibration			0.0 mg/cm ²	Action Level
132	Negative	Off	Calibration			0.1 mg/cm ²	Action Level
133	Negative	Off	Calibration			0.0 mg/cm ²	Action Level

----- END OF READINGS ------

Selected images...



Matrix Health & Safety Consultants, LLC 2900 Yonkers Road Raleigh, NC 27604





REPORT OF LIMITED FACILITY SURVEY TO IDENTIFY ASBESTOS-CONTAINING MATERIALS

NORTH CAROLINA STATE UNIVERSITY MANN HALL 2501 STINSON DRIVE RALEIGH, NORTH CAROLINA EEC PROJECT NO. N-23-39

FOR:

NORTH CAROLINA STATE UNIVERSITY FACILITIES DESIGN & CONSTRUCTION 2601 WOLF VILLAGE WAY ADMINISTRATIVE SERVICES III, SUITE 331 RALEIGH, NORTH CAROLINA 27607

BY:

EEC, Inc. 423 FARINTOSH VALLEY LANE DURHAM, NORTH CAROLINA 27703 Phone: 919-291-6814



EEC, INC. PHONE: (919) 291-6814 423 FARINTOSH VALLEY LANE, DURHAM, NORTH CAROLINA 27703

January 12, 2023

North Carolina State University Facilities Architect, Design & Construction 2601 Wolf Village Way Administrative Services III, Suite 331 Raleigh, North Carolina 27607

Attention:	Mike Bell, PMP, PEM
	Design & Construction

Subject: Summary of Asbestos Bulk Sampling Results Mann Hall 2501 Stinson Drive Raleigh, North Carolina 27607 EEC Job No.: N-23-39

Dear Mr. Bell:

EEC, Inc. is pleased to present this report of the survey to identify asbestos-containing building materials (ACBM) for the planned renovation of Mann Hall located at 2501 Stinson Drive, Raleigh, NC 27607 on the North Carolina State University campus. The purpose of our limited survey is to provide general information, such as the existence and type of asbestos containing materials (ACM) present in the building materials that may have to be disturbed during the demolition and renovations. Our survey included assessment of the suspect ACM samples collected that may be disturbed during demolition and renovation. This report presents known project information, survey procedures and results.

PROJECT INFORMATION

It is our understanding that NCSU plans to renovate the interior of Mann Hall which will require interior demolition. The purpose of our survey was to identify any asbestos containing materials that may be disturbed during the renovations. Any friable asbestos containing materials that would be disturbed during the renovation or demolition work must be removed before such work can begin. The NCSU project manager, Mr. Bell, asked inspection of the building including sampling and analysis of suspect

Report Summarizing Bulk Sampling and Analysis of Suspect ACBM Mann Hall North Carolina State University Raleigh, North Carolina EEC Job No. N-23-39

Asbestos Containing Building Materials (ACBM) present at the site. All the above project information was obtained from our conversations with Mr. Mike Bell and from observations made during our visit to the site on August 10, 2023.

SURVEY AND ANALYTICAL PROCEDURES

On September 29th, 2023, Asbestos Inspectors Donnie Mercer (N. C. Asbestos Inspector No. 11224) and Steve Halyard (N. C. Asbestos Inspector No. 12360) met with NCSU Design & Construction (NCSUDC) to gain access to all the areas of Mann Hall. It was observed that there were some rooms that were locked and inaccessible with the keys that were made available. An additional visit to the site was scheduled on October 16, 2023, for Donnie Mercer to meet with NCSUD&C to access the locked rooms with another set of keys. On October 6, 2023, Donnie Mercer was on site to survey the roof of Mann Hall. Mr. Mercer met later in a scheduled meeting with the NCSU roofing repair personnel on October 13, 2023, to assist in locating and getting the roof core sample holes patched up. Also, on the same day Mr. Mercer along with Mr. Mike Shrimanker met with Mike Bell and NCSUDC to discuss the need to suspend work being done in areas where known ACBM Ceiling Tiles were being damaged/disturbed. A narrative of the observed areas of damage was completed and sent via email to Mike Bell.

All rooms have been accessed except for Telecom Rooms 111A, 306A, and Mechanical Room 1002 (High Voltage). The surveys began with the inspectors performing visual assessments of each area of the building for the presence of materials suspected to be ACM that could be disturbed during the proposed renovations. A sampling strategy was determined, and bulk samples were obtained. Suspect materials were grouped based on material homogeneity. A homogeneous area is an area that contains materials that seem by texture, color, and wear to be uniform and applied during the same general time period. Suspect ACM that was sampled included the 1'x1' Ceiling Tiles, 2'x4' Ceiling Panels, 2''x2'' Ceiling Panels, Ceiling Plaster, Wall Plaster, Chalkboard Glue Dots, Textured Wall Coatings, Sheetrock Wall Board, Wall Board Joint Compound, Spray-on Fireproofing, 2''-6'' Pipe Insulation, 2''-6'' Pipe Fitting Insulation, 9'' Floor Tiles, 12'' Floor Tiles (all various colors), Floor Tile Mastics, Interior Door Caulking, Linoleum, Lab Countertops, Roof Core Built-up Materials, Roof Flashing Sealants, and Textured Exterior Column Cementitious Finish Coat. Bulk samples of suspected ACM were delivered to AmeriSci Richmond

Report Summarizing Bulk Sampling and Analysis of Suspect ACBM Mann Hall North Carolina State University Raleigh, North Carolina EEC Job No. N-23-39

(AmeriSci) in Midlothian, Virginia for analysis. The AmeriSci laboratory is National Voluntary Laboratory Accreditation Program (NVLAP) accredited. AmeriSci's NVLAP accreditation number is 101904-0. Each bulk sample obtained was placed in a sealed container and labeled with a consecutive number, location, and date. This information was logged into our "Asbestos Bulk Sampling Record" database, printed, and delivered in the form of a signed chain-of-custody to AmeriSci's laboratory along with building material samples collected. Each suspect ACM sample was analyzed using Polarized Light Microscopy (PLM), coupled with Dispersion Staining as outlined in the Environmental Protection Agency's (EPA) accredited test method EPA 600/M4-82-020 that incorporates method EPA-600/R-93/116 where applicable as per 40 CFR 763.

Report Summarizing Bulk Sampling and Analysis of Suspect ACBM Mann Hall North Carolina State University Raleigh, North Carolina EEC Job No. N-23-39

SURVEY RESULTS

Asbestos in amounts greater than one percent (1%) was detected in the following materials:

TYPE OF MATERIAL	GENERAL LOCATION*	TYPE/PERCENT ASBESTOS	ESTIMATED QUANTITY**
1'x1' Ceiling Tiles	2 nd -4 th Floors	Amosite 2%	25,000 sq. ft.
ACBM Ceiling Spray-on	1 st Floor/Basement & Structural Lab on the Concrete Beams, Deck and Columns	Chrysotile 4%	20,000 sq. ft.
Chalkboard, Bulletin Board, Marker Board, Tack Board Glue Dots	108, 113 entry, 202, 206, 207, 209, 216A, 217, 301, 304, 306, 307, 319A, 320, 321, 323, 402, 404, 407, 409, 415, 415A, 415B & 431C	Chrysotile 3%	50 Board Locations
Pipe Insulation Mastic Layer	Roof Drains, All Floors	Chrysotile 2%	500 ft.
4" White Pipe Insulation	Lab 100 at Door 100	Amosite 25%	10 feet
5"-6" Pipe Insulation	1 st Floor Basement Corridor	Chrysotile 3%	800 ft
9" Gray/white Floor Tile & Black Mastic	2 nd -4 th Floors	Tiles: Chrysotile 2% Mastic: Chrysotile 5%	24,000 sq. ft.
Black Floor Tile Mastic	Women's Restroom 218	Chrysotile 3%	60 sq. ft,
Interior Door Caulking	1 st Floor, Room 105	Chrysotile 2%	200 Doors
Roof Flashing Sealant	Column-Lower-Level Roof	Chrysotile 5%	15 sq. ft,
12" Green Floor Tile	Room 105	Chrysotile 3%	100 sq. ft.
Transite Pipe	Lab 117, through Corr. to Lab 114, into Lab 113	Assumed	100 ft.

*Based on the results of samples analyzed, it would be reasonable to assume that ACBMs are present in these locations. ** Quantities are estimates only. TBD- To Be Determined

RECOMMENDATIONS

The ACBM must be abated before renovation/demolition activities begin. During our assessment and sampling, we determined that Asbestos is not found in 2'x4' Ceiling Panels, 2"x2" Ceiling Panels, Ceiling Plaster, Wall Plaster, Textured Wall Coatings, Sheetrock Wall Board, Wall Board Joint Compound,

Report Summarizing Bulk Sampling and Analysis of Suspect ACBM Mann Hall North Carolina State University Raleigh, North Carolina EEC Job No. N-23-39 January 12, 2023 Page 5

Linoleum, Lab Countertops, Roof Core Built-up Materials, and Textured Exterior Column Cementitious Finish Coat. We also observed a line of fume hood cementitious pipe that we are assuming to be ACBM.

All ACBM materials are in fair to good condition except for the 1'x1' Ceiling Tiles at the Window Renovation Locations of the building. If the planned renovation activities are expected to disturb any ACBM, then the ACBM must be addressed in accordance with applicable Federal, State, and local regulations. The EPA's NESHAP asbestos regulations (40 CFR 61, Subpart M, Section 61.145) require that regulated friable ACM and regulated non-friable ACM that may become friable must be removed prior to disturbance by North Carolina accredited personnel only. The North Carolina regulations (G.S. 130A-444 through 451) require accreditation of personnel who work in the asbestos field along with notification and removal permit fees for such asbestos removal projects. Since this is a public facility, it will require an accredited designer to design the abatement project. This information can be obtained from the North Carolina Health Hazard Control Unit in Raleigh, NC.

The Occupational Safety and Health Administration (OSHA) asbestos standards (29 CFR 1910 and 1926) address general industry and construction industry employees' asbestos exposure. These standards set asbestos exposure limits that, if exceeded, require medical surveillance and training programs for the employees. Engineering controls, such as proper work practices, respiratory protection and protective clothing are also outlined to achieve compliance with exposure limits. The OSHA asbestos standards also require posting of warning signs in regulated areas and attaching warning labels on products containing asbestos and to waste containers as well asbestos removal in compliance with North Carolina Health Hazard Control Rules and EPA NESHAP rules.

To provide asbestos abatement design, we will need as-built drawings or architectural demolition drawings to determine the scope of work for the bidding asbestos contractors and we can walkthrough with you about asbestos abatement. Our design will meet or exceed North Carolina Health Hazard Control Unit requirement, US-EPA requirements, and North Carolina OSHA requirements.

We appreciate the opportunity to provide these services. We would be glad to discuss any results or observations contained in this report, at your convenience.

Report Summarizing Bulk Sampling and Analysis of Suspect ACBM Mann Hall North Carolina State University Raleigh, North Carolina EEC Job No. N-23-39 January 12, 2023 Page 6

If there are any questions concerning this report or results, please contact us at (919) 291-6814.

Sincerely,

EEC, INC.

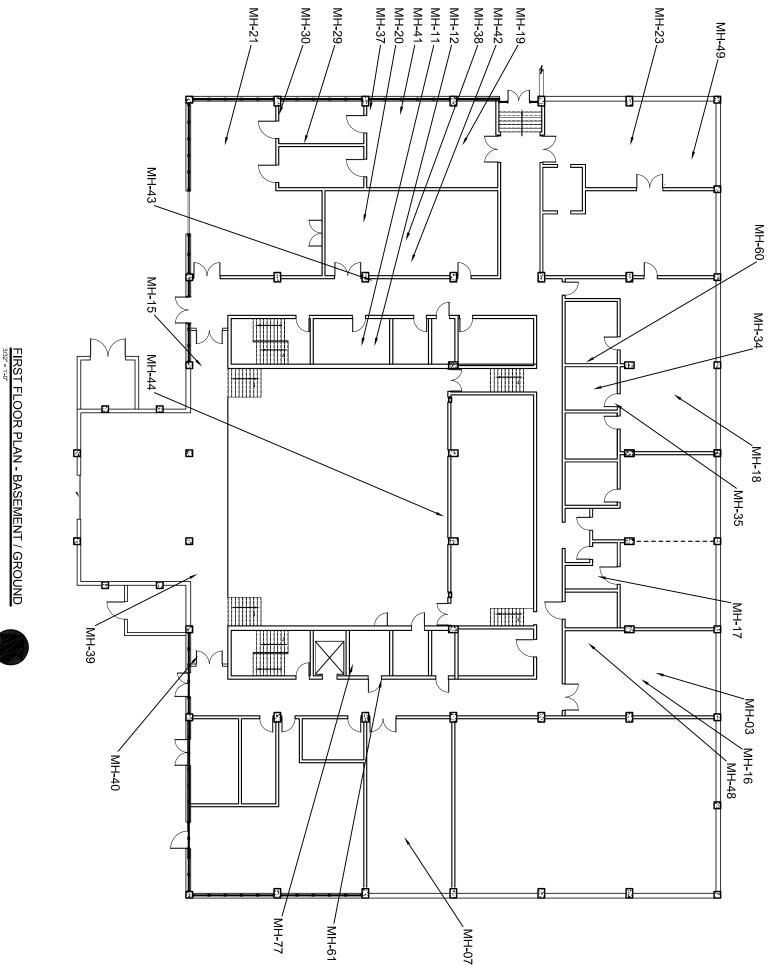
Donnie Mercer Jr.

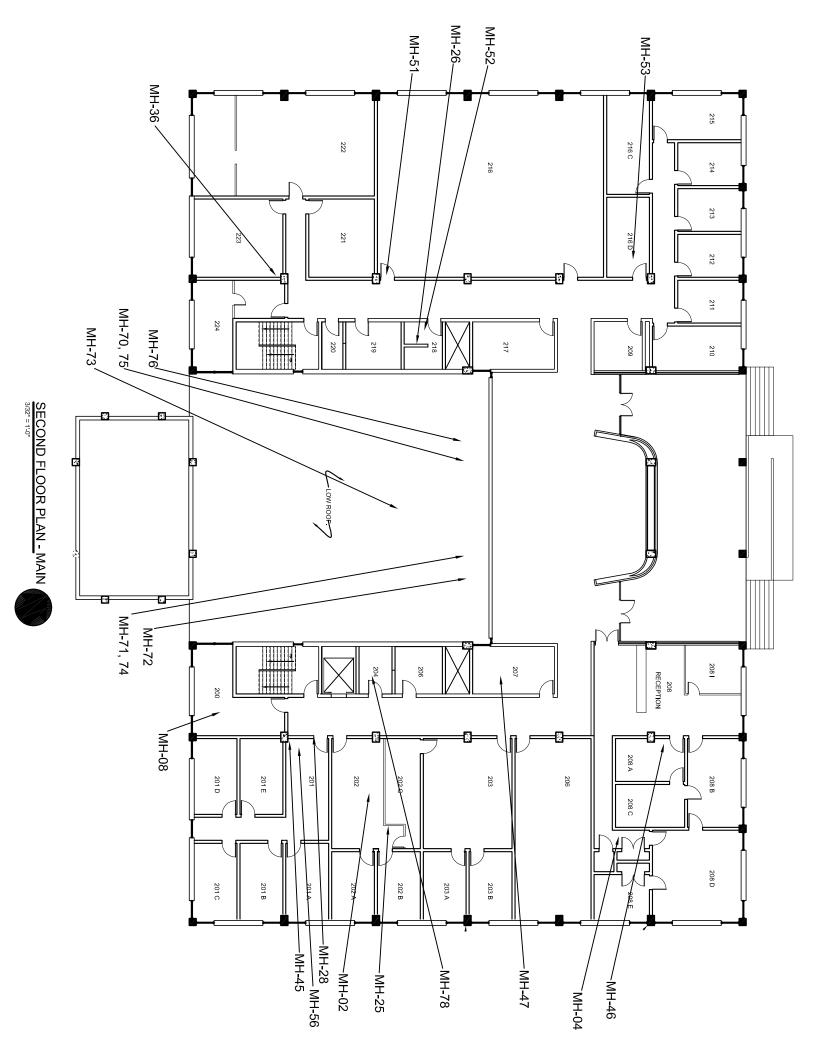
Donnie Mercer Jr. N.C. Inspector No. 11224

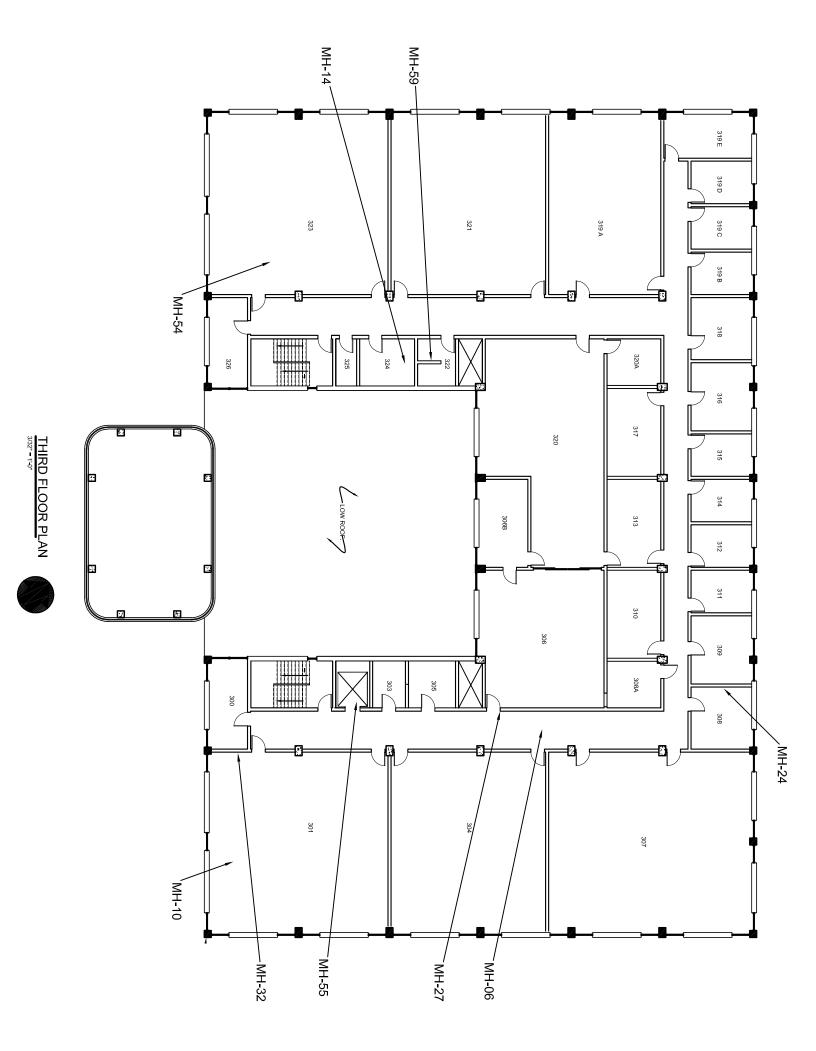
MShumanfar

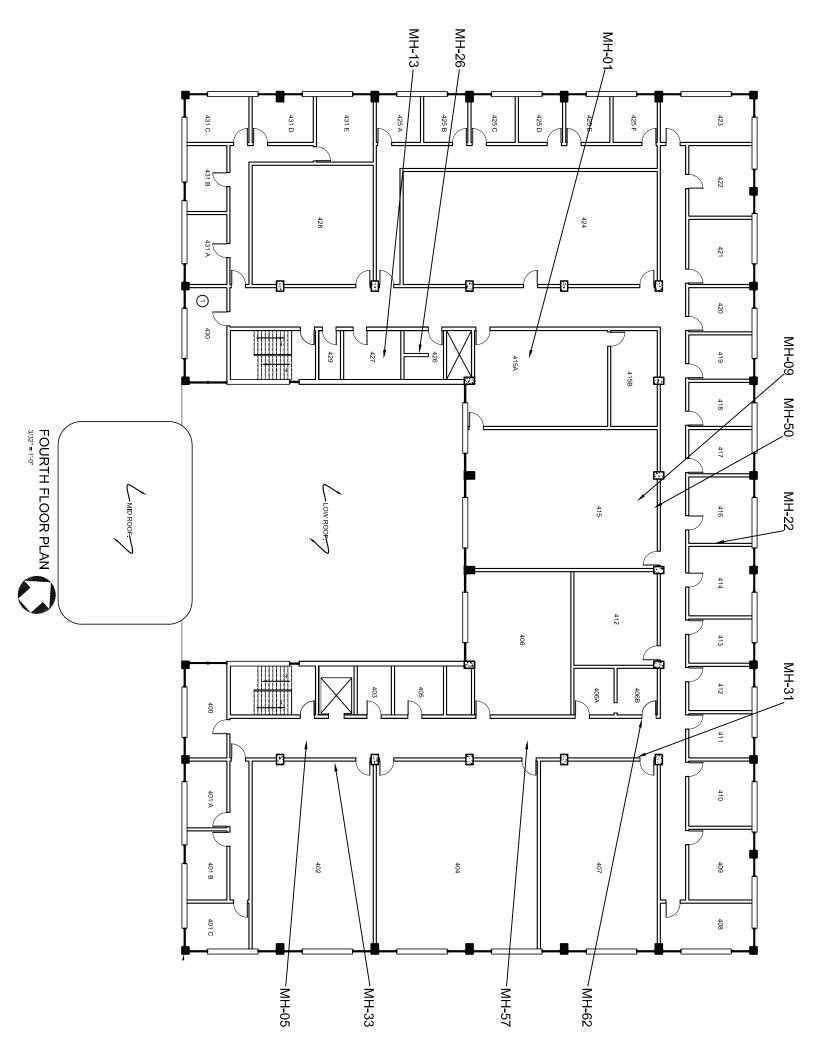
Mike Shrimanker, PE, CIH, CSP President

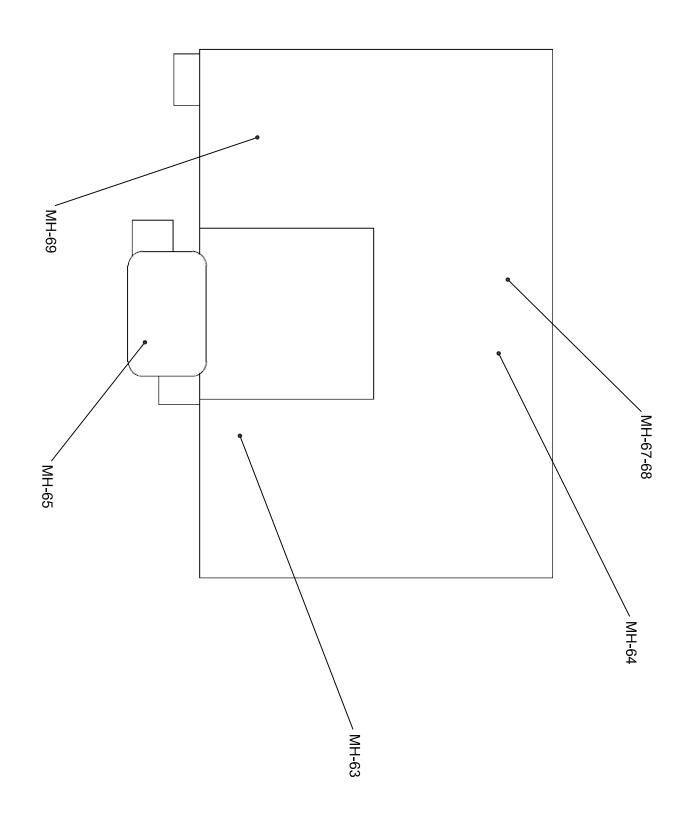
Attachments: Drawings with Sample Locations Colored Hatched ACM Locations Drawings Photographs of ACM Asbestos Bulk Sample Summary with Estimated Asbestos Quantity AmeriSci Richmond PLM Bulk Asbestos Report DRAWINGS WITH SAMPLE LOCATIONS











PHOTOGRAPHS OF ACM

PHOTOGRAPHS OF ACBM NCSU - MANN HALL RALEIGH, NORTH CAROLINA INSPECTORS: DONNIE MERCER JR. & STEVE HALYARD EEC JOB NO.: N-23-39



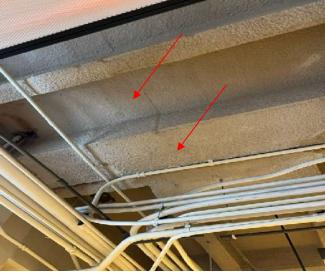


PHOTO No. 1 Typical View of ACBM 1'x1' Ceiling Tiles throughout $2^{nd} - 4^{th}$ Floors

PHOTO No. 2 Typical View of ACBM Ceiling Spray-on throughout 1st Floor/Basement on the Concrete Beams and Deck



PHOTO No. 3 Typical View of ACBM Chalkboard Glue Dots



PHOTO No. 4 Typical View of ACBM Pipe Insulation Mastic Layer on Roof Drain Insulation

PHOTOGRAPHS OF ACBM NCSU - MANN HALL RALEIGH, NORTH CAROLINA INSPECTORS: DONNIE MERCER JR. & STEVE HALYARD EEC JOB NO.: N-23-39





PHOTO No. 5 Typical View of ACBM 4" White Pipe Insulation

PHOTO No. 6 Typical View of ACBM 5"-6" Pipe Insulation



PHOTO No. 7 Typical View of ACBM 9" Gray/white Floor Tile & Black Mastic



PHOTO No. 8 Typical View of ACBM Black Floor Tile Mastic

PHOTOGRAPHS OF ACBM NCSU - MANN HALL RALEIGH, NORTH CAROLINA INSPECTORS: DONNIE MERCER JR. & STEVE HALYARD EEC JOB NO.: N-23-39





PHOTO No. 9 Typical View of ACBM Interior Door Caulking

PHOTO No. 10 Typical View of ACBM Roof Flashing Sealant



PHOTO No. 11 Typical View of ACBM 12" Green Floor Tile



PHOTO No. 12 Typical View of Assumed ACBM Transite Pipe in Lab 113 next to ACBM Roof Drain Line

ASBESTOS BULK SAMPLE SUMMARY

SAMPLE NUMBER	TYPE OF MATERIAL	SAMPLE LOCATION	ASBESTOS TYPE/ PERCENTAGE
MH-01	2'x4' Ceiling Panel	RM 415A	NAD
MH-02	2'x4' Ceiling Panel	RM 202	NAD
MH-03	2'x4' Ceiling Panel	RM 109	NAD
MH-04	2'x2' Ceiling Panel	Corridor at 208G	NAD
MH-05	2'x2' Ceiling Panel	Corridor at 402	NAD
MH-06	2'x2' Ceiling Panel	Corridor at 306	NAD
MH-07	2'x2' Ceiling Panel	RM 106	NAD
MH-08	1'x1' Ceiling Tile	RM 200	2% Amosite
MH-09	1'x1' Ceiling Tile	RM 415	2% Amosite
MH-10	1'x1' Ceiling Tile	RM 301	2% Amosite
MH-11	2'x2' Hard Ceiling Panel	Restroom 120	NAD
MH-12	2'x2' Hard Ceiling Panel	Restroom 120	NAD
MH-13.1	Ceiling Plaster Skim Coat	Men's Restroom 427	NAD
MH-13.2	Ceiling Plaster Base Coat	Men's Restroom 427	NAD
MH-14.1	Ceiling Plaster Skim Coat	Men's Restroom 324	NAD
MH-14.2	Ceiling Plaster Base Coat	Men's Restroom 324	NAD
MH-15	Deck & Ceiling Beam Spray-On	RM 100	4% Chrysotile
MH-16	Deck & Ceiling Beam Spray-On	RM 109	NA/PS
MH-17	Deck & Ceiling Beam Spray-On	RM 112	4% Chrysotile
MH-18	Deck & Ceiling Beam Spray-On	RM 113	NA/PS
MH-19	Deck & Ceiling Beam Spray-On	RM 115	4% Chrysotile
MH-20	Deck & Ceiling Beam Spray-On	RM 117	NA/PS
MH-21	Deck & Ceiling Beam Spray-On	RM 122	4% Chrysotile
MH-22.1	Sheetrock Wallboard	RM 416	NAD

SAMPLE NUMBER	TYPE OF MATERIAL	SAMPLE LOCATION	ASBESTOS TYPE/ PERCENTAGE
MH-22.2	Wall Joint Compound Mud	RM 416	NAD
MH-23.1	Sheetrock Wallboard	RM 114	NAD
MH-23.2	Wall Joint Compound Mud	RM 114	NAD
MH-24.1	Sheetrock Wallboard	RM 308	NAD
MH-25.1	Sheetrock Wallboard	RM 202	NAD
MH-25.2	Wall Joint Compound Mud	RM 202	NAD
MH-26.1	Wall Plaster Skim Coat	RM 218	NAD
MH-26.2	Wall Plaster Base Coat	RM 218	NAD
MH-27	Interior Door Caulking	@ RM 306	NAD
MH-28	Interior Door Caulking	@ RM 201	NAD
MH-29	Coating on CMU Block Walls	RM 122B	NAD
MH-30	Coating on CMU Block Walls	RM 122B	NAD
MH-31	Cork Board Glue Dots	Corridor @ RM 407	3% Chrysotile
MH-32	Chalkboard Glue Dots	RM 301	3% Chrysotile
MH-33	Chalkboard Glue Dots	RM 402	NA/PS
MH-34	Linoleum Tiles	RM 113B	NAD
MH-35	Linoleum Tiles	RM 113B	NAD
MH-36	Pipe Insulation Mastic	RM 223	2% Chrysotile
MH-37	3" Pipe Fitting Insulation	RM 115	NAD
MH-38	3" Pipe Insulation	RM 117	NAD
MH-39	4" Pipe Fitting Insulation	RM 100	NAD
MH-40	4" Pipe Insulation	RM 100 (SE Corner)	25% Amosite
MH-41	2" Pipe Insulation	RM 115	NAD
MH-42	2" Pipe Fitting Insulation	RM 117	NAD
MH-43	5-6" Pipe Insulation	Corridor @ RM 120	3% Chrysotile

SAMPLE NUMBER	TYPE OF MATERIAL	SAMPLE LOCATION	ASBESTOS TYPE/ PERCENTAGE
MH-44	5-6" Pipe Fitting Insulation	RM 100	NAD
MH-45	Roof Drain 6" Pipe Insulation	RM 201	NAD
MH-46	Lab Countertop	RM 208A	NAD
MH-47	Lab Countertop	RM 207	NAD
MH-48	Lab Countertop	RM 109	NAD
MH-49	Lab Countertop	RM 114	NAD
MH-50.1	9" Gray Floor Tile	RM 415	2% Chrysotile
MH-50.2	Black Mastic of MH-50.1	RM 415	5% Chrysotile
MH-51.1	12" Off-white Floor Tile	RM 216	NAD
MH-51.2	Black Mastic of MH-51.1	RM 216	NAD
MH-52.1	12" White Mottled Floor Tile	Women's Restroom 218	NAD
MH-52.2	Black Mastic of MH-52.1	Women's Restroom 218	3% Chrysotile
MH-53.1	12" Mottled Tan Floor Tile	RM 216D	NAD
MH-53.2	Black Mastic of MH-53.1	RM 216D	NAD
MH-54.1	12" Off-white Floor Tile	RM 323	NAD
MH-54.2	Yellow Mastic of MH-54.1	RM 323	NAD
MH-55.1	12" Off-white Mottled Floor Tile	Elevator	NAD
MH-55.2	Yellow Mastic of MH-54.1	Elevator	NAD
MH-56.1	9" Gray Floor Tile	RM 201	2% Chrysotile
MH-56.2	Black Mastic of MH-56.1	RM 201	5% Chrysotile
MH-57	2'x2' Ceiling Panel	Corridor @ RM 404	NAD
MH-58.1	Wall Plaster Skim Coat	Women's Restroom 426	NAD
MH-58.2	Wall Plaster Base Coat	Women's Restroom 426	NAD
MH-59.1	Wall Plaster Skim Coat	Women's Restroom 322	NAD
MH-59.2	Wall Plaster Base Coat	Women's Restroom 322	NAD

SAMPLE NUMBER	TYPE OF MATERIAL	SAMPLE LOCATION	ASBESTOS TYPE/ PERCENTAGE
MH-60.1	Wall Plaster Skim Coat	RM 113A	NAD
MH-60.2	Wall Plaster Base Coat	RM 113A	NAD
MH-61	Interior Door Caulking	RM 105	2% Chrysotile
MH-62	Interior Door Caulking	RM 406B	NAD
MH-63	Roof Core	Main Roof Level – Southeast Corner	NAD
MH-64	Roof Core	Main Roof Level – North Middle	NAD
MH-65	Roof Core	Structural Lab Extension Roof	NAD
MH-66	Roof Core	Lower Main Roof Level	NAD
MH-67	Roof Flashing Sealant	Main Roof Level – NNW Penetration	NAD
MH-68	Roof Flashing Sealant	Main Roof Level – NNW Penetration	NAD
MH-69	Roof Flashing Sealant	Main Roof Level – West Penetration	NAD
MH-70	Roof Flashing Sealant	Lower Main Roof – Column North	NAD
MH-71	Roof Flashing Sealant	Lower Main Roof – Column NE	5% Chrysotile
MH-72	Roof Flashing Sealant	Lower Roof Level – NNE Penetration	NAD
MH-73	Roof Flashing Sealant	Lower Roof – Middle Penetration	NAD
MH-74	Textured Finish Coat	Lower Main Roof – Column NE	NAD
MH-75	Textured Finish Coat	Lower Main Roof – Column NW	NAD
MH-76	Roof Flashing Sealant	Lower Roof – NW Corner Penetration	NAD
MH-77A	Green Floor Tile	RM 105	3% Chrysotile
MH-78A	Mottle Off-white & Gray Floor Tile	RM 204	NAD
MH-78B	Mastic of MH-78A	RM 204	NAD

AMERISCI RICHMOND PLM BULK ASBESTOS REPORT



Job No.#

AMERISCI RICHMOND 13635 GENITO ROAD MIDLOTHIAN, VA 23112 **PHONE: (804) 763-1200 FAX: (804) 763-1800** TOLL FREE (800) 476-5227 www.amerisci.com

			8502 Six Forks Road,					Ρ.	P.O.#						
FF	C, IN	[C			e 104.		,		SPE	ECIAL INS	TRUCTIO	NS:			
	\sim , \cdots	U			igh, ŃC	276	615								
			ANAL	YSIS			-	TURNA		D TIME ()	()		AIR FI	LTER	
	T INFORMATION		TYP	E	6-8 HR	12 HF			8 HR	72 HR	5 DAY	Other	INFORM	IATION:	
JOB NAME: NCSU - Mar	n Hall Survey	1	TEM/AH	IERA]				MCE		
		٦	TEM/LE	VEL II]				РС		
JOB NO.:			TEM/74	-]				25-MM		
N-23-39		-	TEM/BU	JLK					_				37-MM		
JOB MANAGE			TEM/DU										0.45 UM		
Donnie Mer			TEM/W	ATER									0.85 UM		
JOB DESCRIP Asbestos S	TION: urvey Samples		PLM]	X			OTHER:		
Page 1	arrey campies	L	РСМ										-		
			OTHER												
RESULTS TO		EN			CE TO:	EEC									
EMAIL RESUL	.TS: 🛛 ORT TO: EEC				mshrima					PHONE: FAX:	919	-291-6814			
COMMENTS:	*Positive Stop or	n Sample	es of sa	me HG	GA ID.					SITE FA	X :				
										PAGER/					
HGA ID	SAMPLE ID				ATION / D				START TIME	STOP TIME	TIME	X LITERS	TOTAL VOLUME	DATE COLLECTED	
1	MH-01				'x4' Ceilin	-								9-29-23	
1	MH-02				x4' Ceiling	-								n	
1	MH-03		RM [·]	109 / 2'	x4' Ceiling	g Pane	el							п	
2A	MH-04	Co	rridor (2080	G / 2'x2' C	eiling	Panel							n	
2A	MH-05	Co	orridor	@ 402	/ 2'x2' Ce	iling P	anel							п	
2A	MH-06	Co	orridor	@ 306	/ 2'x2' Ce	eiling F	Panel							п	
2B	MH-07		RM 1	06 / 2'>	x2' Ceiling	g Pane	el							"	
3	MH-08		RM	200 / 1	'x1' Ceilin	ng Tile:	s							"	
3	MH-09		RM	415 / 1	'x1' Ceilin	g Tiles	6							"	
3	MH-10		RM	301 / 1	'x1' Ceilin	g Tiles	5							н	
4	MH-11	F	RR 120	/ 2'x2'	Hard Ceil	ling Pa	anel							n	
4	MH-12	F	RR 120	/ 2'x2'	Hard Ceil	ling Pa	anel							"	
5	MR-13		Men's	RR 42	7 / Ceiling	g Plasi	ter							"	
5	MR-14		Men's	RR 32	4 / Ceiling	g Plasi	ter							"	
6	MR-15	RM	100 C	eiling /	Fireproof	ing Sp	oray-on							"	
6	MR-16	RM	109 C	eiling /	Fireproof	ing Sp	oray-on							"	
6	MR-17	RM	/I 112 C	;eiling /	Fireproof	fing Sp	oray-on							п	
6	MR-18			-	Fireproof		-							п	
6	MR-19			-	Fireproof		-							"	
6	MR-20			-	Fireproof		-							"	
SAMPLED BY:		DATE/TIME: 9-29-23 1441 Hrs. Received By:				By:		<u>.</u>	1	DAT	E/TIME:				
RELINQUISHED	DA	DATE/TIME: Received in L				n Lab E	Lab By: DATE/TIME:								



Job No.#

AMERISCI RICHMOND 13635 GENITO ROAD MIDLOTHIAN, VA 23112 **PHONE: (804) 763-1200 FAX: (804) 763-1800** TOLL FREE (800) 476-5227 www.amerisci.com

			8502 Six Forks Road,					P.O.#						
EE	C, IN	IC		e 104,		,		SPE	CIAL INS	TRUCTIO	NS:			
	\mathbf{C},\mathbf{n}			eigh, NC	276	615								
PROJEC				6-8 HR I	12 HF		NARC		D TIME () 72 HR	() 5 DAY	Other		ILTER MATION:	
JOB NAME:		TEM/										MCE		
NCSU - Mar	nn Hall Survey		EVEL II									PC		
JOB NO.:		TEM/	7402									25-MM		
N-23-39		TEM/	BULK									37-MM		
JOB MANAGE	R:	TEM/	DUST									0.45 UM		
Donnie Mei	rcer Jr.	TEM/	WATER									0.85 UM		
JOB DESCRIP		PLM							X			OTHER:	•	
Asbestos S Page 2	urvey Samples	S - PCM												
, s		Отне	R											
RESULTS TO			-	-	EEC				RETURN		S: Y	YES 🗆 🛚 🛚		
EMAIL RESUL		EMAIL A	DDRESS	: mshriman	ker@e	eecincorporat	ed.co	m	PHONE: FAX:	919	-291-6814			
COMMENTS:	*Positive Stop o	n Samples of	same HC	GA ID.		rociji@ginali.	com)		SITE FA	X :				
									PAGER/					
HGA ID	SAMPLE ID	SAM	PLE LOC	ATION / DE	SCRI	PTION	STA TIN		STOP TIME	TOTAL TIME	X LITERS	TOTAL VOLUME	DATE COLLECTED	
6	MH-21	RM 122	Ceiling /	Fireproofin	ng Sp	ray-on							9-29-23	
7	MH-22A	RM	416 / Sh	eetrock Wa	allboa	ard							"	
8	MH-22B	RM 41	6 / Wall	Joint Comp	oounc	d Mud							"	
7	MH-23A	RM	114 / She	eetrock Wa	allboa	rd							"	
8	MH-23B	RM 114	/ Wall J	Joint Comp	ound	Mud							"	
7	MH-24A	RM	308 / She	eetrock Wa	allboa	rd							"	
8	MH-24B	RM 30	3 / Wall 、	Joint Comp	ound	Mud							"	
7	MH-25A	RM	202 / Sh	eetrock Wa	allboa	rd							n	
8	MH-25B	RM 202	2 / Wall 、	Joint Comp	ound	Mud							п	
9	MH-26		RM 218	/ Wall Plas	ter								п	
10	MH-27	@ 3	06 / Inte	rior Door C	aulkir	ng							п	
10	MH-28	@ 2	01 / Inte	rior Door C	aulkir	ng							n	
11	MH-29	RM 122E	/ Coatir	ng on CMU	Block	< Walls							п	
11	MH-30	RM 122E	/ Coatir	ng on CMU	Block	< Walls							"	
12	MH-31	Corridor	@ 407 /	Cork Board	d Glu	e Dots							"	
13	MH-32	RM 301 / Chalkboard Glue Dots							"					
13	MH-33	RM	402 / Ch	alkboard G	ilue D	ots							"	
14	MH-34	R	M 113B	/ Linoleum	Tiles								"	
14	MH-35	R	M 113B	/ Linoleum	Tiles								"	
15	MH-36	RM 223 / Ver	tical Met	al-covered	Pipe	Ins. Mastic							"	
SAMPLED BY:	D. Mercer & S. H	Halyard D	DATE/TIME: 9-29-23 1441 Hrs. Received By:				•				Dat	E/TIME:		
RELINQUISHED BY: DATE/TIME:											E/TIME:			



Job No.#

AMERISCI RICHMOND 13635 GENITO ROAD MIDLOTHIAN, VA 23112 **PHONE: (804) 763-1200 FAX: (804) 763-1800** TOLL FREE (800) 476-5227 www.amerisci.com

EE	C, IN	[C	8502 Six Forks Road, Suite 104, Raleigh, NC 27615							P.O.# PECIAL INSTRUCTIONS:						
PROJEC	T INFORMATION		LYSIS	6-8 HR	12 HF	TU R 24 HR		ouni Hr) TIME (X 72 HR	() 5 DAY	Other		LTER IATION:			
JOB NAME:		TEM/A										MCE				
NCSU - Mar	n Hall Survey									PC						
JOB NO.:		TEM/7	402									25-MM				
N-23-39		TEM/B	ULK									37-MM				
JOB MANAGE		TEM/D	UST									0.45 UM				
Donnie Mer		TEM/V	VATER									0.85 UM				
JOB DESCRIP		PLM							X			OTHER:				
Page 3	urvey Samples	PCM														
		OTHER	र													
RESULTS TO	-			CE TO:	EEC				-	SAMPLE	-					
EMAIL RESUL	.TS: 🛛 ORT TO: EEC					eecincorpora			PHONE: FAX:	919	-291-6814					
	*Positive Stop of						11.00111)		SITE FA	X :						
							_		PAGER/							
HGA ID	SAMPLE ID	SAMP	LE LOC	ATION / DE	SCRI	PTION	STA TIN		STOP TIME	TOTAL)	K LITERS	TOTAL VOLUME	DATE COLLECTED			
16	MH-37	RM 11	5 / 3" Pi	pe Fitting I	Insula	ition							9-29-23			
17	MH-38	RN	/ 117 / 3	3" Pipe Ins	ulatio	n							n			
16	MH-39	RM 10)0 / 4" P	ipe Fitting	Insula	ation							"			
17	MH-40	@ SE Corner	Door to	RM 100 / 4	4" Pip	e Insulatior	n						"			
17	MH-41	RM	117 / 2	" Pipe Insu	lation	1							"			
16	MH-42	Corridor @ N	/len's RF	R 120 / 2"	Pipe F	-itting Ins.							"			
17	MH-43	RM	100 / 5-0	6" Pipe Ins	sulatio	n							"			
16	MH-44	RM 100) / 5-6" F	Pipe Fitting	g Insu	lation							"			
18	MH-45	RM 201 /	Roof D	rain 6" Pip	e Insi	ulation							"			
19A	MH-46	RM	1 208H /	Lab Coun	itertop)							"			
19B	MH-47	R	M 207 / I	Lab Count	ertop								"			
19C	MH-48	RI	M 109 / I	Lab Count	ertop								"			
19D	MH-49	RI	M 114 / I	Lab Count	ertop								"			
20	MH-50A	RM	415/9	" Gray Floo	or Tile	9							"			
21	MH-50B			stic of MH-									"			
22	MH-51A			Off-white F		Tile							"			
23	MH-51B			stic of MH									"			
24	MH-52A	Women's RR				d Floor Tile							п			
25	MH-52B			stic of MH-									"			
26	MH-53A			Nottled Tai		or Tile							"			
	D. Mercer & S. H			0.20.22	3	eceived By:				<u> </u>	L DAT	E/TIME:				
Relinquished	BY:	D	DATE/TIME: Received in La					Lab By: DATE/TIME:								



Job No.#

AMERISCI RICHMOND 13635 GENITO ROAD MIDLOTHIAN, VA 23112 PHONE: (804) 763-1200 FAX: (804) 763-1800 TOLL FREE (800) 476-5227 www.amerisci.com

8502 Six Forks Road, P.O.#															
FF	C, IN	$[\mathbf{C}]$			e 104,	511(3	1.00	uu,		SPE	CIAL INS	TRUCTIO	NS:		
	\mathbf{C},\mathbf{n}				igh, NC	27	615	1							
PROJEC	T INFORMATION		ANAI TY		6-8 HR	12 H	IR I	TUR 24 HR	NAR	ouni Hr	D TIME (X 72 HR	() 5 DAY	Other		LTER IATION:
JOB NAME:			TEM/A				_							MCE	
NCSU - Mar	nn Hall Survey		TEM/LE	EVEL II										PC	
JOB NO.:			TEM/74	402										25-MM	
N-23-39			TEM/B	ULK										37-MM	
JOB MANAGE			TEM/D	UST										0.45 UM	
Donnie Mei	rcer Jr.		TEM/W	/ATER										0.85 UM	
JOB DESCRIP			PLM								X			OTHER:	-
Page 4	urvey Samples														
Ű			OTHER	2											
RESULTS TO	-				CE TO:		C. Inc						S: Y	ES 🗆 🛛 🛛	
EMAIL RESUL					: mshrima gmail.com						PHONE:	919	-291-6814		
	*Positive Stop or	n Samp	les of sa	ame HG	GMail.com	a um	ercerj	r@gmail.	com)		FAX: SITE FA	×٠			
	·										PAGER/				
HGA ID	SAMPLE ID		SAMP	LE LOC	ATION / D	ESCR		N	STA	ART ME	STOP TIME	TOTAL	X LITERS	TOTAL VOLUME	DATE COLLECTED
27	MH-53B			Mastic	of MH-53	3A								VOLUME	9-29-23
22	MH-54A		RM 32	23 / 12"	Off-white	Floo	r Tile								"
28	MH-54B			Mastic	c of MH-5	4A									"
29	MH-55A	Ele	vator /	12" Off-	white mot	tled F	loor	Tile							"
30	MH-55B			Mastic	of MH-55	БA									"
20	MH-56A		RM	201/9	" Gray Flo	oor Ti	le								"
21	MH-56B		BI	ack Ma	stic of MH	I-56A									n
2B	MH-57	(Corrido	r @ 404	/ 2'x2' Ce	eiling	Pane	el							"
9	MH-58		Wome	en's RR	426 / Wa	II Pla	ster								"
9	MH-59		Wome	en's RR	322 / Wa	ll Pla	ster								"
9	MH-60		R	M 113A	/ Wall Pla	aster									II
10	MH-61		RM 10	05 / Inte	rior Door	Caull	king								II
10	MH-62		RM 40	6B / Inte	erior Door	r Cau	lking								"
SAMPLED BY:	D. Mercer & S. H	lalyard	DA	ATE/TIME	9-29-2 1441 H		Recei	ved By:					DAT	E/TIME:	
RELINQUISHED BY: DA					DATE/TIME: Received in La				Lab By: DATE/TIME:						



Job No.#

AMERISCI RICHMOND 13635 GENITO ROAD MIDLOTHIAN, VA 23112 **PHONE: (804) 763-1200 FAX: (804) 763-1800** TOLL FREE (800) 476-5227 www.amerisci.com

				8502	2 Six Fo	rks	Roa	ad		Ρ.0	D.#				
FF	C, IN	IC			e 104.			uu,		SPE	CIAL INS	TRUCTIO	DNS:		
	\bigcirc , Π				igh, NC	27	'615								
PROJEC				LYSIS		40.1					D TIME (X			AIR FI	
JOB NAME:		•	TY TEM/A			12 F	_	24 HR	48	HR	72 HR	5 DAY	Other		
NCSU - Man	in Hall Survey													MCE PC	
JOB NO.:			TEM/74											25-MM	
N-23-39			TEM/B	-										37-MM	
JOB MANAGER	र:		TEM/D	UST										0.45 UM	
Donnie Mer	cer Jr.		TEM/W	ATER										0.85 UM	
JOB DESCRIP			PLM								X			OTHER:	1 —
Asbestos Su Page 5	urvey Samples	s -	PCM											1	
			OTHER	ł											
RESULTS TO:	EEC Inc			INVO	CE TO:	EE	C. Inc	2			RETURN		ES: \		
EMAIL RESUL					mshriman						PHONE:	91	9-291-6814		
	ORT TO: EEC *Positive Stop o					& dm	nercerj	r@gmail.	com)		FAX: SITE FA	v .			
											PAGER/				
HGA ID	SAMPLE ID		SAMP	LE LOC	ATION / DE	SCF		ON	STA TIN		STOP TIME		X LITERS	TOTAL VOLUME	DATE
31	MH-63	Ma	-	-	Southeast	-	-						///////	VOLUME	COLLECTED 10-6-23
31	MH-64	Mai	n Roof	Level - I	North mide	dle /	Roof	Core							II
31	MH-65	Stru	ictural L	ab Area	a - Southea	ast /	Roof	Core							"
31	MH-66	Lowe	r (2nd F	Ir.) Lev	el - Northe	ast /	/ Root	f Core							"
32	MH-67	Main	Rf. Lvl	NNW F	ene./Roof	Fla	sh. Se	ealant							"
33	MH-68	Main	Rf. Lvl	-NNW F	Pene./Roof	f Fla	sh. Se	ealant							"
34	MH-69	Main	Rf. Lvl.	-West F	ene./Roof	Fla	sh. Se	ealant							"
35	MH-70	Lwr.	Lvl. Colu	umn - N	orth / Roo	f Fla	ash. S	Sealant							"
36	MH-71	Lwr.	. Lvl. Co	olumn -	NE/ Roof F	Flas	h. Sea	alant							"
37	MH-72	Lwr	. Lvl N	NE Pe	ne./ Roof F	-lasł	h. Sea	alant							"
38	MH-73	Lwr	. Lvl M	liddle P	en./ Roof F	-lasł	h. Sea	alant							"
39	MH-74	Lwr.	Lvl. Co	lumn - N	NE/ Textur	ed F	inish	Coat							H
39	MH-75	Lwr.	Lvl. Col	umn - N	IW/ Textur	red F	Finish	Coat							"
40	MH-76	Lwr. I	vl NW	corn. P	en./Roof F	lasł	n. Sea	al.2:09							"
SAMPLED BY:	Donnie Mere	cer Jr.	DA	ATE/TIME	10-6-23 1545 Hrs		Recei	ived By:	-			-	DA	E/TIME:	
RELINQUISHED I	BY:		DA	ATE/TIME	:		Recei	ived in La	b By:				DA	E/TIME:	



Job No.#

AMERISCI RICHMOND 13635 GENITO ROAD MIDLOTHIAN, VA 23112 **PHONE: (804) 763-1200 FAX: (804) 763-1800** TOLL FREE (800) 476-5227 www.amerisci.com

	8502 Six Forks Road, P.O.#														
FE	C, IN	IC			∋ 104,			e.e.,		Spe	CIAL INS	TRUCTIO	NS:		
	\bigcirc , Π				igh, NC	27	61	5							
PROJEC	T INFORMATION	1		LYSIS PE	6-8 HR	12	HR	TUR 24 HR	NAR 48	ouni Hr	D TIME (X 72 HR	() 5 DAY	Other		ILTER MATION:
JOB NAME:			TEM/A											MCE	
NCSU - Mar	n Hall Survey		TEM/LE	EVEL II										PC	
JOB NO.:			TEM/74	402										25-MM	
N-23-39			TEM/B	ULK										37-MM	
JOB MANAGE			TEM/D	UST										0.45 UM	
Donnie Mer			TEM/W	/ATER										0.85 UM	
JOB DESCRIP	тіом : urvey Samples		PLM					X						OTHER:	
Page 6	urvey Samples	5 -	PCM												
			OTHER	R											
RESULTS TO	-		_	-	CE TO:		C. In					SAMPLE			
EMAIL RESUL	.TS: 🔀 ORT TO: EEC				mshrima						PHONE: FAX:	919	-291-6814		
COMMENTS:	*Positive Stop o	n Samp	oles of sa	ame HC	SA ID.	or an	10100	iji @giriaii.	00111)		SITE FA	X :			
											PAGER/	CELL:			
HGA ID	SAMPLE ID		SAMP	LE LOC	ATION / D	ESCF	RIPTI	ON	STA TIN		STOP TIME	TOTAL TIME	X LITERS	TOTAL VOLUME	DATE COLLECTED
41	MH-77A	RM 10	05 / 12"	Greenis	sh-White s	strea	ks Fl	loor Tile							10-16-23
40	MH-77B			Mastio	c of MH-7	7A									"
42	MH-78A	RM 2	04/ 12"	Mottled	Off-white	& G	ray F	loor Tile							"
43	MH-78B			Mastic	of MH-78	3A									н
		<u> </u>													
		<u> </u>													
					10-16-2	23									
SAMPLED BY:	Donnie Mer	cer Jr.	DA	ATE/TIME	10-10-2 1800 H		Rece	eived By:					DAT	E/TIME:	
RELINQUISHED BY: DATE/			ATE/TIME	Ŀ		Rece	eived in La	b By:				DAT	E/TIME:		



13635 GENITO ROAD MIDLOTHIAN, VIRGINIA 23112 TEL: 8047631200 FAX: 8047631800

October 12, 2023

EEC INC Attn: Donnie Mercer Jr 8514 Six Forks Road Suite 101 Raleigh, NC 27615

RE: EEC INC Job Number 123101136 P.O. #N-23-39 N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples (Report Amended 10/12/2023)

Dear Donnie Mercer Jr:

Enclosed are the results for PLM asbestos analysis of the following EEC INC samples received at AmeriSci on Wednesday, October 4, 2023, for a 3 day turnaround:

MH-01, MH-02, MH-03, MH-04, MH-05, MH-06, MH-07, MH-08, MH-09, MH-10, MH-11, MH-12, MR-13, MR-14, MR-15, MR-16, MR-17, MR-18, MR-19, MR-20, MH-21, MH-22, MH-23, MH-24, MH-25, MH-26, MH-27, MH-28, MH-29, MH-30, MH-31, MH-32, MH-33, MH-34, MH-35, MH-36, MH-37, MH-38, MH-39, MH-40, MH-41, MH-42, MH-43, MH-44, MH-45, MH-46, MH-47, MH-48, MH-49, MH-50, MH-51, MH-52, MH-53, MH-54, MH-55, MH-56, MH-57, MH-58, MH-59, MH-60, MH-61, MH-62

The 73 samples contained in zip lock bag were shipped to AmeriSci via Fed Ex 8175 6326 3392 B 930. These samples were prepared and analyzed according to EPA PLM Method (EPA 600/R-93/116 Section 2.2). The required analytical information, analysis results, analyst signature and laboratory identification are contained in the PLM Bulk Asbestos Report. If TEM analysis was requested for selected samples the gravimetric reduction data (by Sec 2.3) and TEM Asbestos % (by Sec 2.5) are included in Table 1 along with a summary of Asbestos % by PLM for all samples analyzed.

This report relates ONLY to the sample analysis expressed as % asbestos. AmeriSci assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology accreditation requirements mandate that this report must not be reproduced, except in full, without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

SUTP/

Glenn F. Massey QA Manager | Authorized Signatory



AmeriSci Richmond

13635 GENITO ROAD MIDLOTHIAN, VIRGINIA 23112 TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

EEC INC Attn: Donnie Mercer Jr	Date Received Date Examined	10/04/23 10/09/23	AmeriSc P.O. #	i Job) #	123101136
8514 Six Forks Road	55		Page		of	1-1
Suite 101	RE: N-23-39; NC	SU - Mann Ha	II Survey; /	Asbe	stos S	urvey Samples
Raleigh, NC 27615	(Report Amer	nded 10/12/20)23)			

Client No. / HGA		Lab No.	Asbestos Present	Total % Asbestos
MH-01 1	Location: Rm 41	123101136-01 5A / 2'x4' Ceiling Panel	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbes	tos Types:	geneous, Fibrous, Bulk Materia ,Fibrous glass 10%,Non-fibr		
MH-02		123101136-02	Νο	NAD
1	Location: Rm 20	2 / 2'x4' Ceiling Panel		(by CVES) by Eric H. Ahles on 10/09/23
Asbes	tos Types:	geneous, Fibrous, Bulk Materia , Fibrous glass 10%, Non-fibr		
 MH-03		123101136-03	Νο	NAD
1	Location: Rm 10	9 / 2'x4' Ceiling Panel		(by CVES) by Eric H. Ahles on 10/09/23
Asbes	tos Types:	geneous, Fibrous, Bulk Materia , Fibrous glass 10%, Non-fibr		
MH-04		123101136-04	Νο	NAD
2A	Location: Corrido	or @ 208G / 2'x2' Ceiling Panel		(by CVES) by Eric H. Ahles on 10/09/23
Asbes	tos Types:	geneous, Fibrous, Bulk Materia , Fibrous glass 5.0%, Non-fibr		
MH-05		123101136-05	Νο	NAD
2A	Location: Corrido	or @ 402 / 2'x2' Ceiling Panel		(by CVES) by Eric H. Ahles on 10/09/23
Asbes	tos Types:	geneous, Fibrous, Bulk Materia		
Othe	r Material: Cellulose 80%	, Fibrous glass 5.0%, Non-fib	rous 15%	

Client No. /	HGA	Lab No.	Asbestos Present	Total % Asbestos
MH-06 2A	06 123101136-06 Location: Corridor @ 306 / 2'x2' Ceiling Panel		Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbesto	os Types:	eneous, Fibrous, Bulk Material		
	Material: Cellulose 80%	Fibrous glass 5.0%, Non-fibro		
MH-07 2B	Location: Rm 106	123101136-07 3 / 2'x2' Ceiling Panel	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbesto	os Types:	eneous, Fibrous, Bulk Material Fibrous glass 5.0%, Non-fibro	us 15%	
MH-08 3	Location: Rm 200	123101136-08) / 1'x1' Ceiling Tiles	Yes	2.0% (by CVES) by Eric H. Ahles on 10/09/23
Asbesto	os Types: Amosite 2.0%	eneous, Fibrous, Bulk Material Fibrous glass 80%, Non-fibrou	us 5.0%	
MH-09		123101136-09	Yes	2.0%
3	Location: Rm 415	5 / 1'x1' Ceiling Tiles		(by CVES) by Eric H. Ahles on 10/09/23
Asbesto	os Types: Amosite 2.0%	eneous, Fibrous, Bulk Material Fibrous glass 80%, Non-fibrou	us 5.0%	
MH-10		123101136-10	Yes	2.0%
3	Location: Rm 30 ²	/ 1'x1' Ceiling Tiles		(by CVES) by Eric H. Ahles on 10/09/23
Asbesto	os Types: Amosite 2.0%	eneous, Fibrous, Bulk Material Fibrous glass 80%, Non-fibrou	us 5.0%	
 MH-11		123101136-11	No	NAD
4	Location: RR 120	/2'X2' Hard Ceiling Panel		(by CVES) by Eric H. Ahles on 10/09/23
-	scription:White, Heterog os Types:	eneous, Fibrous, Bulk Material		
Other	Material: Cellulose 5.0%	, Fibrous glass 1.0%, Non-fibro	ous 94%	

Client No. / HGA		Lab No.	Asbestos Present	Total % Asbestos
MH-12		123101136-12	Νο	NAD
Location: RR 120/2'X2' Hard Ceiling Panel		0/2'X2' Hard Ceiling Panel		(by CVES) by Eric H. Ahles on 10/09/23
Asbesto	s Types:	geneous, Non-Fibrous, Bulk Ma 6, Fibrous glass 1.0%, Non-fib		
MR-13		123101136-13.1	Νο	NAD
5 5	Location: Men's RR 427 / Ceiling Plaster		(by CVES) by Eric H. Ahles on 10/09/23	
Asbesto		geneous, Non-Fibrous, Skim Co 00%	oat (Plaster)	
MR-13		123101136-13.2	No	NAD
5	Location: Men's	RR 427 / Ceiling Plaster		(by CVES) by Eric H. Ahles on 10/09/23
Asbesto		eneous, Non-Fibrous, Cementi %, Non-fibrous 98%	tious, Base Coat (Plaster)	
MR-14		123101136-14.1	Νο	NAD
5	Location: Men's	RR 324 / Ceiling Plaster		(by CVES) by Eric H. Ahles on 10/09/23
Asbesto		geneous, Non-Fibrous, Skim Co 00%	oat (Plaster)	
MR-14		123101136-14.2	Νο	NAD
5	Location: Men's	RR 324 / Ceiling Plaster		(by CVES) by Eric H. Ahles on 10/09/23
Asbesto		eneous, Non-Fibrous, Cementi %, Non-fibrous 98%	tious, Base Coat (Plaster)	
MR-15		123101136-15	Yes	4.0%
6	Location: Rm 10	0 Ceiling / Fireproofing Spray-0		(by CVES) by Eric H. Ahles on 10/09/23
Asbesto	cription: White, Hetero s Types: Chrysotile 4.0 Material: Fibrous Talc 6		aterial	

Client No. / HGA		Lab No.	Lab No. Asbestos Present	
MR-16		123101136-16		NA/PS
6	Location: Rm 109	Ceiling / Fireproofing Spray-0	Dn	
Asbesto	scription:Bulk Material os Types: Material:			
MR-17		123101136-17	Yes	4.0%
6	Location: Rm 112	Ceiling / Fireproofing Spray-C	Dn	(by CVES) by Eric H. Ahles on 10/09/23
Asbesto	scription:White, Heteroge os Types: Chrysotile 4.0% Material: Fibrous Talc 6.0		aterial	
MR-18		123101136-18		NA/PS
6	Location: Rm 113	Ceiling / Fireproofing Spray-C	Dn	
	os Types: Material:	123101136-19	Yes	4.0%
6	Location: Rm 115	Ceiling / Fireproofing Spray-C	Dn	(by CVES) by Eric H. Ahles on 10/09/23
Asbesto	scription: White, Heteroge os Types: Chrysotile 4.0% Material: Fibrous glass 4.		aterial	
MR-20		123101136-20		NA/PS
6	Location: Rm 117	Ceiling / Fireproofing Spray-C	Dn	
Asbesto	scription:Bulk Material os Types: Material:			
MH-21		123101136-21	Yes	4.0%
6	Location: Rm 122	Ceiling / Fireproofing Spray-C	Dn	(by CVES) by Eric H. Ahles on 10/09/23
Analyst De	scription: White, Heteroge	neous Non-Fibrous Bulk Ma	aterial	

Client No. / HGA MH-22 1 7 Location: Rm 416 / Sheetr		Lab No.	Asbestos Present	Total % Asbestos
		123101136-22 16 / Sheetrock Wallboard	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	s Types:	ogeneous, Non-Fibrous, Bulk Ma 0%, Non-fibrous 98%	terial	
MH-22 8	Location: Rm 4	123101136-23 16 / Wall Joint Compound Mud	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	-	ogeneous, Non-Fibrous, Bulk Ma 100%	terial	
MH-23 7	Location: Rm 1	123101136-24 14 / Sheetrock Wallboard	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	s Types:	ogeneous, Non-Fibrous, Bulk Ma 0%, Fibrous glass Trace, Non-fib		
MH-23 8	Location: Rm 1	123101136-25 14 / Wall Joint Compound Mud	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	s Types:	ogeneous, Non-Fibrous, Bulk Ma Trace, Non-fibrous 100%	terial	
MH-24 7	Location: Rm 3	123101136-26 308 / Sheetrock Wallboard	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	s Types:	ogeneous, Non-Fibrous, Bulk Mate 0%, Fibrous glass Trace, Non-fib		
MH-24 8	Location: Rm 3	123101136-27 308 / Wall Joint Compound Mud		NA ¹
Asbestos	cription:Insufficient N s Types: faterial:	<i>l</i> aterial		

Client No. / HG	A Lab No.	Asbestos Present	Total % Asbestos
MH-25 7	123101136-28 Location: Rm 202 / Sheetrock Wallboard	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	otion:White, Heterogeneous, Non-Fibrous, Bulk Ma /pes: erial: Cellulose 2.0%, Non-fibrous 98%	iterial	
 MH-25	123101136-29	Νο	NAD
8	Location: Rm 202 / Wall Joint Compound Mud		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	otion:White, Heterogeneous, Non-Fibrous, Bulk Ma /pes: erial: Non-fibrous 100%	ıterial	
MH-26 9	123101136-30.1 Location: Rm 218 / Wall Plaster	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	otion:White, Heterogeneous, Non-Fibrous, Skim Co /pes: erial: Fibrous Talc 2.0%, Non-fibrous 98%	oat (Plaster)	
MH-26	123101136-30.2	Νο	NAD
9	Location: Rm 218 / Wall Plaster		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	otion:Gray, Heterogeneous, Non-Fibrous, Cementit /pes: erial: Cellulose Trace, Non-fibrous 100%	ious, Base Coat (Plaster)	
 MH-27	123101136-31	Νο	NAD
10	Location: @ 306 / Interior Door Caulking		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	otion:Gray, Homogeneous, Non-Fibrous, Bulk Mate /pes: erial: Non-fibrous 100%	erial	
 MH-28	123101136-32	No	NAD
10	Location: @ 201 / Interior Door Caulking		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	otion: Gray, Homogeneous, Non-Fibrous, Bulk Mate ypes: e rial: Non-fibrous 100%	erial	

N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples (Report Amended 10/12/2023)

Client No. / HG/	A Lab No.	Asbestos Present	Total % Asbesto	
MH-29 11	123101136-33 Location: Rm 122B / Coating On CMU Block Wall	No s	NAD (by CVES) by Eric H. Ahles on 10/09/23	
Asbestos Ty	t ion: White, Heterogeneous, Non-Fibrous, Cementiti pes: rial: Non-fibrous 100%	ous, Bulk Material		
MH-30 11	123101136-34 Location: Rm 122B / Coating On CMU Block Wall	No Is	NAD (by CVES) by Eric H. Ahles on 10/09/23	
Asbestos Ty	t ion: White, Heterogeneous, Non-Fibrous, Cementiti pes: rial: Non-fibrous 100%	ous, Bulk Material		
MH-31 12	123101136-35 Location: Corridor @ 407 / Cork Board Glue Dots	3.0% (by CVES) by Eric H. Ahles on 10/09/23		
Asbestos Ty	t ion: Black, Homogeneous, Non-Fibrous, Bulk Mater pes: Chrysotile 3.0% rial: Non-fibrous 97%	ial		
MH-32 13	123101136-36 Location: Rm 301 / Chalkboard Glue Dots	Yes	3.0% (by CVES) by Eric H. Ahles on 10/09/23	
Asbestos Ty	t ion: Black, Homogeneous, Non-Fibrous, Bulk Mater pes: Chrysotile 3.0% rial: Non-fibrous 97%	ial		
MH-33 13	123101136-37 Location: Rm 402 / Chalkboard Glue Dots		NA/PS	
Analyst Descrip Asbestos Ty Other Mate				
MH-34 14	123101136-38 Location: Rm 113B / Linoleum Tiles	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23	
Asbestos Ty	t <mark>ion:</mark> Tan, Heterogeneous, Non-Fibrous, Bulk Materia pes: rial: Cellulose 2.0%, Non-fibrous 98%	al		

Other Material: Cellulose 2.0%, Non-fibrous 98%

Client No. / HGA		Lab No.	Asbestos Present	Total % Asbestos
MH-35 14	Location: Rm 113	123101136-39 B / Linoleum Tiles	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	• •	eous, Non-Fibrous, Bulk Mate Non-fibrous 98%	erial	
MH-36		123101136-40	Yes	2.0%
15	Location: Rm 223	n 223 / Vertical Metal-Covered Pipe Ins Mastic		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos	ription: Silver/Brown/Bl Types: Chrysotile 2.09 aterial: Cellulose 33%,		Bulk Material	
MH-37		123101136-41	No	NAD
16	Location: Rm 115	/ 3" Pipe Fitting Insulation		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos		eneous, Fibrous, Bulk Materia 00%	al	
MH-38		123101136-42	No	NAD
17	Location: Rm 117	/ 3" Pipe Insulation		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos	Types:	eterogeneous, Fibrous, Bulk Fibrous glass 90%, Non-fib		
 MH-39		123101136-43	No	NAD
16	Location: Rm 100	/ 4" Pipe Fitting Insulation		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos	Types:	neous, Fibrous, Bulk Material Fibrous glass 35%, Non-fib		
MH-40		123101136-44	Yes	25%
17	Location: @ SE C	orner To Door To Rm 100 / 4"	Pipe Insulation	(by CVES) by Eric H. Ahles on 10/09/23
Asbestos	ription: White, Heteroge Types: Amosite 25% aterial: Non-fibrous 75%	eneous, Non-Fibrous, Bulk Ma %	aterial	

N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples (Report Amended 10/12/2023)

Client No. / HO	Client No. / HGA		Asbestos Present	Total % Asbestos
 MH-41		123101136-45	No	NAD
17 Location: Rm 115 / 2" F		/ 2" Pipe Insulation		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos	Types:	ver, Heterogeneous, Fibrous		
	terial: Cellulose 20%,	Fibrous glass 40%, Non-fibr		
MH-42 16	Location: Rm 117	123101136-46 /2" Pipe Fitting Ins	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	Types:	ow, Heterogeneous, Fibrous, Fibrous glass 90%, Non-fib		
 MH-43		123101136-47	Yes	3.0%
17	Location: Corridor	@ Men's RR 120 / 5-6" Pipe	Insulation	(by CVES) by Eric H. Ahles on 10/09/23
Asbestos	Types: Chrysotile 3.0%	terogeneous, Non-Fibrous, B Fibrous glass 2.0%, Non-fib		
MH-44		123101136-48	No	NAD
16	Location: Rm 100	/ 5-6" Pipe Fitting Insulation		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos	-	terogeneous, Non-Fibrous, B	Bulk Material	
		123101136-49	No	NAD
18	Location: Rm 201	/ Roof Drain 6" Pipe Insulatio	-	(by CVES) by Eric H. Ahles on 10/09/23
Asbestos	Types:	ow, Heterogeneous, Fibrous, Fibrous glass 80%, Non-fibr		
MH-46		123101136-50	No	NAD
19A	Location: Rm 208	H / Lab Countertop		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos 1		neous, Non-Fibrous, Cement %	titious, Bulk Material	

See Reporting notes on last page

Client No. / HG	A Lab No.	Asbestos Present	Total % Asbestos
MH-47 19B	123101136-51 Location: Rm 207 / Lab Countertop	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos Ty	t ion: Black, Heterogeneous, Non-Fibrous, Cementi bes: rial: Non-fibrous 100%	tious, Bulk Material	
MH-48	123101136-52	No	NAD
19C	Location: Rm 109 /Lab Countertop		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos Ty	t ion: Black, Heterogeneous, Fibrous, Bulk Material bes: rial: Cellulose 100%, Non-fibrous Trace		
 MH-49	123101136-53	No	NAD
19D	Location: Rm 114 / Lab Countertop		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos Ty	t ion: Black, Heterogeneous, Non-Fibrous, Cementi pes: rial: Non-fibrous 100%	tious, Bulk Material	
MH-50	123101136-54	Yes	2.0%
20	Location: Rm 415 / 9" Gray Floor Tile		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos Ty	t ion: White, Heterogeneous, Non-Fibrous, Bulk Ma bes: Chrysotile 2.0% rial: Non-fibrous 98%	terial	
MH-50	123101136-55	Yes	5.0%
21	Location: Black Mastic Of MH-50A		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos Ty	t ion: Black, Heterogeneous, Non-Fibrous, Bulk Mat bes: Chrysotile 5.0% rial: Non-fibrous 95%	terial	
MH-51	123101136-56	No	NAD
22	Location: Rm 216 / 12" Off-White Floor Tile		(by CVES) by Eric H. Ahles on 10/09/23
Asbestos Ty	t ion: Off-White, Heterogeneous, Non-Fibrous, Bulk pes: rial: Non-fibrous 100%	Material	

N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples (Report Amended 10/12/2023)

Client No. / HG	A Lab No	b. Asbestos Present	Total % Asbesto		
MH-51 23	123101136 Location: Black Mastic Of MH-51A	6-57 No	NAD (by CVES) by Eric H. Ahles on 10/09/23		
Asbestos Ty	otion:Black, Heterogeneous, Non-Fibrous /pes: erial: Cellulose 3.0%, Non-fibrous 97%	, Bulk Material			
MH-52 24	123101136 Location: Women's RR 218 / 12" White		NAD (by CVES) by Eric H. Ahles on 10/09/23		
Asbestos Ty	otion:White, Heterogeneous, Non-Fibrous /pes: erial: Non-fibrous 100%	s, Bulk Material			
MH-52 25	123101136 Location: Black Mastic Of MH-52A	6-59 Yes	3.0% (by CVES) by Eric H. Ahles on 10/09/23		
Asbestos Ty	otion:Black, Homogeneous, Non-Fibrous, /pes: Chrysotile 3.0% erial: Non-fibrous 97%	Bulk Material			
MH-53 26	123101136 Location: Rm 216D / 12" Mottled Tan F		NAD (by CVES) by Eric H. Ahles on 10/09/23		
Asbestos Ty	otion:Tan, Heterogeneous, Non-Fibrous, E /pes: erial: Non-fibrous 100%	Bulk Material			
MH-53 27	123101136 Location: Mastic Of MH-53A	6-61 No	NAD (by CVES) by Eric H. Ahles on 10/09/23		
Asbestos Ty	otion:Black, Heterogeneous, Non-Fibrous /pes: erial: Cellulose 4.0%, Non-fibrous 96%	, Bulk Material			
MH-54 22	123101136 Location: Rm 323 / 12" Off-White Floor		NAD (by CVES) by Eric H. Ahles on 10/09/23		
Asbestos Ty	otion:Off-White, Heterogeneous, Non-Fibr /pes: erial: Non-fibrous 100%	rous, Bulk Material			

N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples (Report Amended 10/12/2023)

Client No. / HG	A	Lab No.	Asbestos Present	Total % Asbestos
MH-54 28	Location: Mastic Of N	123101136-63 1H-54A	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos T		ous, Non-Fibrous, Bulk M on-fibrous 98%	laterial	
MH-55 29	Location: Elevator / 1	123101136-64 2" Off-White Mottled Floor	No Tile	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	-	eneous, Non-Fibrous, Bull	k Material	
MH-55 30	Location: Mastic Of N	123101136-65 1H-55A	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	•	eous, Non-Fibrous, Bulk M on-fibrous 97%	laterial	
MH-56 20	Location: Rm 201 / 9	123101136-66 ' Gray Floor Tile	Yes	2.0% (by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	otion: Gray, Heterogenec /pes: Chrysotile 2.0% erial: Non-fibrous 98%	us, Non-Fibrous, Bulk Ma	terial	
MH-56 21	Location: Black Mast	123101136-67 c Of MH-56A	Yes	4.0% (by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	otion:Black, Homogeneo ypes:Chrysotile 4.0% erial: Non-fibrous 96%	us, Non-Fibrous, Bulk Ma	terial	
MH-57 2B	Location: Corridor @	123101136-68 404 / 2'x2' Ceiling Panel	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos T	/pes:	ous, Fibrous, Bulk Materia prous glass 5.0%, Non-fib		

N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples (Report Amended 10/12/2023)

Client No. / H	iGA La	b No.	Asbestos Present	Total % Asbestos
MH-58 9	12310 Location: Women's RR 426 / W	11136-69.1 /all Plaster	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	cription:White, Heterogeneous, Non- s Types: laterial: Fibrous Talc 2.0%, Non-fibro		at (Plaster)	
MH-58 9	12310 Location: Women's RR 426 / W	11136-69.2 /all Plaster	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	c ription: Gray, Heterogeneous, Non-F 5 Types: Iaterial: Cellulose Trace, Non-fibrous		ous, Base Coat (Plaster)	
MH-59 9	12310 Location: Women's RR 322 / W	11136-70.1 /all Plaster	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	cription:White, Heterogeneous, Non- 5 Types: laterial: Fibrous Talc 2.0%, Non-fibro		at (Plaster)	
MH-59 9	12310 Location: Women's RR 322 / W	1136-70.2 /all Plaster	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	c ription: Gray, Heterogeneous, Non-F 5 Types: Iaterial: Cellulose Trace, Non-fibrous		ous, Base Coat (Plaster)	
MH-60 9	12310 Location: Rm 113A / Wall Plast)1136-71.1 _{er}	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	cription:White, Heterogeneous, Non- 5 Types: laterial: Fibrous Talc 2.0%, Non-fibro		at (Plaster)	
MH-60 9	12310 Location: Rm 113A / Wall Plast	11136-71.2 er	Νο	NAD (by CVES) by Eric H. Ahles on 10/09/23
Asbestos	cription:Gray, Heterogeneous, Non-F s Types: laterial: Cellulose Trace, Non-fibrous		ous, Base Coat (Plaster)	

Other Material: Cellulose Trace, Non-fibrous 100%

N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples (Report Amended 10/12/2023)

Client No. / H	GA Lab No.	Asbestos Present	Total % Asbestos
MH-61	123101136-7	2 Yes	2.0%
10	Location: Rm 105 / Interior Door Caulking	9	(by CVES) by Eric H. Ahles on 10/09/23
Asbestos	ription: Gray, Homogeneous, Non-Fibrous, Bul Types: Chrysotile 2.0% aterial: Non-fibrous 98% 123101136-7		NAD
-			
10	Location: Rm 406B / Interior Door Caulkin	ng	(by CVES)
			by Eric H. Ahles
			on 10/09/23
Analyst Descr	ription: White, Heterogeneous, Non-Fibrous, B	Bulk Material	
Analyst Descr Asbestos		Bulk Material	

Reporting Notes:

(1) Insufficient material submitted for accurate quantitation during PLM analysis (no QC possible).

Analyzed by: Eric H. Ahles Date: 10/9/2023

In appe

Reviewed by: Eric H. Ahles

The appe

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Meiji, Model MT 6130 microscope, Serial #1410298, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

AmeriSci Richmond	Report Amendment Explanation Form (append to amended report)	Date Amended 10/12/2023
Client:	EEC INC	
AmeriSci Job #:	<u>123101136</u>	
Client Job:	<u>N-23-39</u>	
Analysis Type:	PLM	
AmeriSci Sample #s affected:	<u>123101136-9, 10, 17, 19, 21, 45, 47, 66, 67, 73</u>	
Amended by (print/sign):	Eric H. Ahles	
Original Item(s) Being Amended:	9, 10, 17, 19, 21, 45, 47, 66, 67, 73	

Changes Made: Samples analyzed

Reason for Client removed positive stop Changes:

Attach original sheet with incorrect item or items to be amended clearly indicated or circled.

Subject: Job no. 123101136 From: Donnie Mercer <dmercerjr@gmail.com> Date: 10/12/2023, 11:29 AM To: AmeriSci VA <varesults@amerisci.com> CC: Mike Shrimanker <mshrimanker@eecincorporated.com>

Tony,

•

I had marked "Positive Stop" on some samples of this job that I now would like to have analyzed. They include: MH-09, MH-10, MH-17, MH-19, MH-21, MH-41, MH-43, MH-56, MH-56A, and MH-62. Could you please analyze the samples?

Thank you, Donnie Mercer

 \mathbb{W}

Subject: Re: Job Problem - AmeriSci 123101136; N-23-39; NCSU Mann Hall Survey From: "Donnie Ray Mercer Jr." <dmercer@eecincorporated.com> Date: 10/4/2023, 12:57 PM To: AmeriSci VA <varesults@amerisci.com>

Dear Angel,

Please analyze the one sample of wall plaster as you normally would. Change the designation number on the bag to correspond with the COC as only NH-26.

Thank you,

Donnie

On 10/4/2023 12:24 PM, AmeriSci VA wrote:

Hello

We received Job N-23-39 (123-10-1136)

Have Bag labeled 26A and 26B

Job Problem: 26B is not on the COC.

What would like to do?

1. Do not Analyze 26B

2. Add 26B to COC (Will need Description)

Thank you

Angel

--

Confidentiality Notice: Unless otherwise indicated, the information contained in this communication is confidential information for use of the individual named above. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this communication in error, please immediately notify the sender by telephone and return the original message to the above address via the US postal Service at our expense. Samples are disposed of in 60 days unless otherwise instructed by the protocol or special instructions in writing.

Thank you for your business.

AMERI SCI

EEC, INC

HAR IF LE ARCORC

128101136

AMERISCI RICHHOND 13635 GENITO ROAD MIDLOTHIAN, VA 23112 PHONE: (804) 763-1200 FAX: (804) 763-1800 DLL FREE (800) 476-6227 www.amerisci.com

	. •*
÷.,	
~	

AMERISCI Richmond Job No.#

ob No.	\$						
8502 Six Forks Road,		P.O.#					
Suit	e 104, eigh, NC 27615	Special Instructions:					
.Y818		AROUND TIME (X)					

		r	ANALYSIS	r		Til		o This A	<u></u>			
	T INFORMATION	I		6-8 HR	12 HR	<u>1 24 FIR</u>	A8 HR	<u>D TIME ()</u> 72 HR	5DAY	Other	Air Fi Inform	lter Iation:
JOB NAME: NCSU - Mar	nn Hall Survey		TEM/AHERA				a	a			MCE	
			TEMALEVEL II					۵	0		PC	
JOB NO.:			TEM/7402								25-MM	
N-23-39			TEM/BULK								37-MM	
OB MANAGE			TEM/DUST					0.45 UM				
Donnie Mei			TEM/WATER				<u>a</u>				0.86 UM	
JOB DESCRIP Ashestos S	'TION: urvey Samples		PLM								OTHER:	
Page 1	arey campics	'	PCM									
			OTHER									
RESULTS TO				CE TO:	EEC. I				SAIAPLE			
EMAIL RESUL	.TS: 🔟 Orito: eec		ALL ADDRESS:	mahrima I com	nker@ee	cincorporat	ted.com	PHONE: FAX:	919	-291-6814		
COMMENTS:	Positive Stop or	n Sample	es of same HG	AID.		1. (2 . Å. (1974		SITE FA	X:			
								PAGER				
HGA ID	SAMPLE ID		SAMPLE LOCA	ATION / D	ESCRIPT	ION	BTART	STOP TIME			TOTAL	DATE
1	MH-01		RM 415A / 2	x4' Ceilin	g Panel							9-29-2
1	MH-02		RM 202 / 2'x4' Ceiling Panel									
1	MH-03		RM 109 / 2'x4' Ceiling Panel									tt.
2A	MH-04	C	Corridor @ 208G / 2'x2' Ceiling Pane					·				
2A	MH-05	C	orridor @ 402	1 2'x2' Ce	iling Pan	el	<u> </u>				├── ┦	. 41
2A	MH-06	C	orridor @ 306 / 2'x2' Ceiling			el .	<u> </u>					â
28	MH-07		RN 106 / 25	2' Ceiling	g Panel			-				
3	MH-08		RM 200 / 1	'x1' Ceilir	ng Tiles							
3	MH-09		RM 415 / 1	x1' Ceilin	g Tiles							
3	MH-10		RM 301 / 1	x1' Ceilin	g Tiles							
4	MH-11		RR 120 / 252	Hard Cei	ling Pane	¥		<u> </u>			a	
4	MH-12		RR 120 / 252	Hard Cel	ling Pane	3I					<u>├</u> ──-	41
5	MR-13		Men's RR 42	7 / Ceilin	g Plaster		<u> </u>	<u> </u>				
5	MR-14		Men's RR 32	4 / Ceiling	g Plaster	,						ů.
6	MR-15	RA	100 Ceiling /	Fireproof	ing Spra	y-an	<u> </u>				t t	tt .
6	MR-16	RA	109 Ceiling /	Fireproof	fing Spra	y-on					├ ──-{	-
6	MR-17	R	M 112 Ceiling /	Fireproo	fing Spre	iy-on				 		
	MR-18	R	1113 Ceiling /	Fireproof	fing Spra	y-on						
6	and the second se	Pi.	M 115 Ceiling / Fireproofing Spray-on									a
6	MR-19	144									-	
	MR-19 MR-20		A 117 Ceiling /	Fireproot	ing Spra	y-on						a T
6		RA			8	y-on zeived By:					e/Time; e/Time; Par	

PLEASE SEND COPIES OF ALL LAB RESULTS TO EMAIL: MSHRMANKER@EECINCORF ORATED.COM

OCT 04 2023

Ameri Sci

Shake of the set records

AMERISCI RCHILOND AUELINSUI ROLADU 13635 GENITO ROAD MIDLOTHIAN, VA 23112 PHONE: (804) 763-1200 FAX: (804) 763-1200 FAX: (804) 763-1200 TOLL FREE (800) 476-6227 TOLL FREE (800) 476-6227 www.ameriscl.com

:

Job No.#

AMERISCI Retained 128101136

EEC, INC Suite 104, Rateigh, NC 27615 SPECIAL Instructions: Product Instruments Analysis Select 12 MR 24/R 24/R 24/R 24/R 24/R 24/R 24/R 24/			8502 Six Forks Road.						P.O.#						
Raleigh, NC 27815 Arr. Provide Triple CO Arr. Provide Triple CO Arr. Provide Triple CO Arr. Provide Triple CO Colspan="2">Arr. Provide Triple CO Arr. Provide Triple CO Colspan="2">Arr. Provide Triple CO Arr. Provide Triple CO Colspan="2">Arr. Provide Triple CO Arr. Provide Triple CO Triple Arr. Viel. 8 Colspan="2">Colspan="2">Colspan="2">Arr. Provide Triple CO N-23-38 Triple Arr. Viel. 8 Colspan="2">Colspan="2"Colspan	EEC. INC		C	L		#1 FM3		-,		SPE	CIAL INS	RUCTIO	N S:		
PROJECT INFORMATION TYEL 6-6 FR 12 HR 24 HR <th24 hr<="" th=""> 24 HR 24 HR<td>المسلم ليسم</td><td>~,</td><td>\sim</td><td colspan="6">Raleigh, NC 27615</td><td></td><td colspan="5">1</td></th24>	المسلم ليسم	~,	\sim	Raleigh, NC 27615							1				
PROJECT INFORMATION TYRE 6-6 IRR 12 HR 24 HR 46 IRR 72 HR 5 (AV Other Increasenance NCSU - Mann Hall Survey TEBMARERA □			- ANA	LYBIR				Tup				<u>. </u>			LTER
NCSU - Mann Hall Survey Industrieval Industrieval <td></td> <td>T INFORMATION</td> <td>T</td> <td>PE</td> <td></td> <td>12 H</td> <td>R 24</td> <td>HR</td> <td>48</td> <td>-IR</td> <td>72 HR</td> <td>5 EAY</td> <td>Other</td> <td></td> <td></td>		T INFORMATION	T	PE		12 H	R 24	HR	48	-IR	72 HR	5 EAY	Other		
TEMALEVEL C				HERA								0		NCE	
N-23-39 TBMPSULK Image			TEMAL	EVEL 1					_						
JOB MANAGER: TIME OUST I															
Donnie Mercer Jr. TEMMATER I <td></td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					· · · · · · · · · · · · · · · · · · ·				_						
JOB DESCRIPTION: Aabestos Survey Samples - Page 2 PLM I <									_			_			
Abbestos Survey Samples - Page 2 Image 1 Image 1 <t< td=""><td></td><td></td><td></td><td colspan="3"></td><td></td><td></td><td>-</td><td></td><td></td><td>_</td><td></td><td></td><td></td></t<>									-			_			
Page 2 PCan L L							-		_						
RESULTS TO: EEC Inc INVOICE TO: EEC. Inc RETURN SAMPLES: YES [] NO B EMAIL RESULTS: EIAAL ADDRESS: maintainsi geochicognorated.com PHOME: 919-291-8814 COMMENTS: FOGIIVE Stop on Samples of same HGA IU. FAX: FAX: COMMENTS: FOGIIVE Stop on Samples of same HGA IU. State FAX: FOGIIVE Stop on Samples of same HGA IU. 6 MH-21 RM 122 Celling / Freproofing Spray-on Total Total Column of the samples of same HGA IU. 6 MH-21 RM 416 / Sheetrock Wallboard Total Column of the samples of same HGA IU. State of same HGA IU. 7 MH-22A RM 416 / Sheetrock Wallboard Total Column of the same of same HGA IU. 8 MH-23B RM 114 / Sheetrock Wallboard Column of the same of same HGA IU. Column of the same of same HGA IU. 7 MH-24A RM 308 / Sheetrock Wallboard Column of the same of same HGA IU. Column of the same of same HGA IU. Column of the same of sa	Page 2						_		_				_	4	
EMAIL ADDRESS: msimmankar@sechoarporated.com PHONE: 919-291-8814 WRATTEN REPORT TO: EEC Inc. (Copies to sechoggmail.com) FAX: COMMENTS: "Positive Stop on Samples of same HGA ID. STITE FAX: HGA ID SAMPLE ID SAMPLE LOCATION / DESCRIPTION START 6 MH-21 RM 122 Celling / Fireproofing Spray-on STOP TOTAL Value 6 MH-22A RM 416 / Wall Joint Compound Mud Stop 9-26 7 MH-23A RM 114 / Sheetrock Wallboard Stop Stop Stop 8 MH-22B RM 416 / Wall Joint Compound Mud Stop Stop Stop Stop 8 MH-23B RM 114 / Sheetrock Wallboard Stop															
WRITTEN REPORT TO: EEC In: Copies to seamologymeticized regigneticized in the configing maticized regigneticized in the configing maticized in the configuration of the configurati			Fitan A					omene	ad						
HGA ID SAMPLE ID SAMPLE LOCATION / DESCRIPTION START TIME START TIME START TIME START TIME START TIME START TIME START AIN Value AIN Value Court 6 MH-21 RM 122 Celling / Fireproofing Spray-on Image Image 9-28 7 MH-22A RM 416 / Wall Joint Compound Mud Image Image Image Image 9-28 7 MH-23A RM 114 / Sheetrock Wallboard Image Image <td>WRITTEN REPO</td> <td>DRITO: EECI</td> <td>nc. (Copies to</td> <td>eecinc@</td> <td>gmail.com</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>813</td> <td>-281-0014</td> <td>···</td> <td></td>	WRITTEN REPO	DRITO: EECI	nc. (Copies to	eecinc@	gmail.com							813	-281-0014	···	
HGA ID SAMPLE ID SAMPLE LOCATION / DESCRIPTION STAPT TWE STOP TWE TOPAL X LITERS VOLUME COLL OTAL VOLUME COLL ODA 6 MH-21 RM 122 Ceiling / Fireproofing Spray-on Image Image 9-29 7 MH-22A RM 416 / Sheetrock Wallboard Image Image 9-29 8 MH-22B RM 416 / Wall Joint Compound Mud Image	COMMENTS: "Positive Stop on Samples of same HGA ID.				SA ID.										
Contraction Contraction Title Title <td></td> <td>r</td> <td><u> </u></td> <td colspan="5"></td> <td></td> <td></td> <td></td> <td></td> <td>117500</td> <td>TOTAL</td> <td>DATE</td>		r	<u> </u>										117500	TOTAL	DATE
7 MH-22A RM 416 / Sheetrock Wallboard ************************************							_								COLLECTED
7 MH-22A Fox 416 / Streetrock Wallboard 8 MH-22B RM 416 / Wall Joint Compound Mud Image: Compound Mud 7 MH-23A RM 114 / Sheetrock Wallboard Image: Compound Mud 8 MH-23B RM 114 / Wall Joint Compound Mud Image: Compound Mud 7 MH-24A RtM 308 / Sheetrock Wallboard Image: Compound Mud 8 MH-24B RtM 308 / Wall Joint Compound Mud Image: Compound Mud 7 MH-25A RtM 202 / Sheetrock Wallboard Image: Compound Mud 8 MH-25B RtM 202 / Sheetrock Wallboard Image: Compound Mud 9 MH-25B RtM 202 / Wall Joint Compound Mud Image: Compound Mud 9 MH-26 RtM 218 / Wall Plaster Image: Compound Mud 10 MH-27 @ 306 / Interior Door Caulking Image: Compound Mud 11 MH-28 @ 201 / Interior Door Caulking Image: Compound Mud Image: Compound Mud 11 MH-26 RtM 218 / Coating on CMU Block Walls Image: Compound Mud Image: Compound											<u> </u>	L			9-29-23
3 NH-225 FeM 4167 Wall sourt Compound Nud ************************************						_				_		L	L	L	
7 NH-23K RMI 114 / Sittebard Wallboard ************************************	8	MH-22B	RM 41	6 / Wall	Joint Con	npour	nd Mud								
7 MH-24A RM 308 / Sheetrock Wallboard ************************************	7	MH-23A								_					*
8 MH-24B RM 308 / Well Joint Compound Mud ************************************	8	MH-23B	RM 114	/Wall J	loint Com	npoun	d Mud								ei
8 NH-24B Point 308 / Wait Joint Compound Muth 1 7 MH-25A RM 202 / Sheetrock Wallboard 1 8 MH-25B RM 202 / Wait Joint Compound Mud 1 9 MH-26 RM 218 / Wall Plaster 1 10 MH-27 @ 306 / Interior Door Caulking 1 10 MH-28 @ 201 / Interior Door Caulking 1 11 MH-29 RM 122B / Coating on CMU Block Walls 1 11 MH-30 RM 122B / Coating on CMU Block Walls 1 12 MH-31 Corridor @ 407 / Cork Board Glue Dots 1 13 MH-32 RM 301 / Chalkboard Glue Dots 1 14 MH-35 RM 113B / Linoleum Tiles 1	7	MH-24A	RM 3	308 / Sh	eetrock V	Valibo	ard								
7 INIT-25A RM 202 / Wall Joint Compound Mud Image: Compound Mud 8 MH-25B RM 202 / Wall Joint Compound Mud Image: Compound Mud 9 MH-26 RM 218 / Wall Plaster Image: Compound Mud Image: Compound Mud 10 MH-27 @ 306 / Interior Door Caulking Image: Compound Mud Image: Compound Mud Image: Compound Mud 10 MH-28 @ 201 / Interior Door Caulking Image: Compound Mud Image: Compou	8	MH-24B	RM 308	3 / Wall .	Joint Con	npoun	d Mud								
8 MH-235 RM 2027 Wall Joint Compound Mud 9 MH-26 RM 218 / Wall Plaster 10 10 MH-27 @ 306 / Interior Door Caulking 10 10 MH-28 @ 201 / Interior Door Caulking 10 11 MH-29 RM 122B / Coating on CMU Block Walls 11 11 MH-30 RM 122B / Coating on CMU Block Walls 11 12 MH-31 Corridor @ 407 / Cork Board Glue Dots 12 13 MH-32 RM 301 / Chalkboard Glue Dots 11 14 MH-34 RM 113B / Linoleum Tiles 11	7	MH-25A	RM	202 / Sh	eetrock V	Valibo	bard								¢1
9 Min-20 RM 2187 Wall Plaster 10 Min-27 @ 306 / Interior Door Caulking 1 10 Min-28 @ 201 / Interior Door Caulking 1 11 Min-29 RM 122B / Coating on CMU Block Walls 1 11 Min-30 RM 122B / Coating on CMU Block Walls 1 11 Min-30 RM 122B / Coating on CMU Block Walls 1 12 Min-31 Corridor @ 407 / Cork Board Glue Dots 1 13 Min-32 RM 301 / Chalkboard Glue Dots 1 13 Min-33 RM 402 / Chalkboard Glue Dots 1 14 Min-34 RM 113B / Linoleum Tiles 1	8	MH-25B	RM 202	2 / Wali .	Joint Con	npoun	d Mud								*
10 MH-27 (g) 305 / Interior Door Cauliding 10 MH-28 (g) 201 / Interior Door Caulking 11 MH-29 RM 122B / Coating on CMU Block Walls 11 MH-30 RM 122B / Coating on CMU Block Walls 11 MH-30 RM 122B / Coating on CMU Block Walls 12 MH-31 Corridor (g) 407 / Cork Board Glue Dots 13 MH-32 RM 301 / Chalkboard Glue Dots 13 MH-33 RM 402 / Chalkboard Glue Dots 14 MH-34 RM 113B / Linoleum Tiles 14 MH-35 RM 113B / Linoleum Tiles	9	MH-26		RM 218	/ Wall Pla	aster									4
10 MH-28 gg 201 / Interfor Door Cauliang 11 MH-29 RM 122B / Coating on CMU Block Walls 1 11 MH-30 RM 122B / Coating on CMU Block Walls 1 12 MH-31 Corridor @ 407 / Cork Board Glue Dots 1 13 MH-32 RM 301 / Chalkboard Glue Dots 1 14 MH-34 RM 113B / Linoleum Tiles 1	10	MH-27	@ 3	06 / Inte	rior Door	Caulk	ang		_	-					. u
11 MH-30 RM 122B / Coating on CMU Block Walls 12 12 MH-31 Corridor @ 407 / Cork Board Glue Dots 13 13 MH-32 RM 301 / Chalkboard Glue Dots 14 13 MH-33 RM 402 / Chalkboard Glue Dots 14 14 MH-35 RM 113B / Linoleum Tiles 14	10	MH-28	02	01 / Inte	rior Door	Caulk	ding			_	<u> </u>	<u> </u>	1		e
12 MH-31 Corridor @ 407 / Cork Board Glue Dots 1 13 MH-32 RM 301 / Chalkboard Glue Dots 1 13 MH-33 RM 402 / Chalkboard Glue Dots 1 14 MH-34 RM 113B / Linoleum Tiles 1 14 MH-35 RM 113B / Linoleum Tiles 1	11	MH-29	RM 1228	/ Coatir	ng on CM	IU Blo	ck Wa	is			1	t —	1	1	
12 MH-31 Corridor @ 407 / Cork Board Glue Dots 1 13 MH-32 RM 301 / Chalkboard Glue Dots 1 13 MH-33 RM 402 / Chalkboard Glue Dots 1 14 MH-34 RM 113B / Linoleum Tiles 1 14 MH-35 RM 113B / Linoleum Tiles 1	11	MH-30	RM 1228	/ Coatir	ng on CM	iù Blo	ck Wa	lis			1	†——	1		
13 MH-32 RM 301 / Chalkboard Glue Dots 1 13 MH-33 RM 402 / Chalkboard Glue Dots 1 14 MH-34 RM 113B / Linoleum Tiles 1 14 MH-35 RM 113B / Linoleum Tiles 1	12	MH-31			*				 		1	†	1	1	a
13 MH-33 RM 402 / Chalkboard Glue Dots 1 14 MH-34 RM 113B / Linoleum Tiles 1 14 MH-35 RM 113B / Linoleum Tiles 1	13			<u> </u>							1	†	<u>†</u>		
14 MH-34 RM 113B / Linoleum Tiles 1 14 MH-35 RM 113B / Linoleum Tiles 1									┢──		+	╆	1	+	
14 MH-35 RM 113B / Linoleum Tiles									1-	_	<u>+</u>	†	1	1	
						_					t	†		1	- a
								Mastic				┼───	+	1	
SAMPLED BY: D. Mercer & S. Halyard DATE/TIME: 9-29-23 1441 Hrs. Received By: DATE/TIME: DATE/TIME:		······	····		9-29-	23			₽		.	.	DA	TE/TIME:	· · · · · · · · · · · · · · · · · · ·
RELINQUISHED BY: DATE/TIME: Received in Lab By: DATE/TIME: PLEASE SEND COPIES OF ALL LAB RESULTS TO EMAIL: MSHRIMANKER@EECINCORPORATED.COM RUEIVED	RELINQUISHED								-				_	_	

PLEASE SEND COPIES OF ALL LAB RESULTS TO EMAIL: MSHRIMANKER@EECINCORPORATED.COM RECEIVED

OCT 04 2023 **Mu**

AMERI SCI

•

123101136

AMERISCI RICHARAND 13635 GENITO ROAD MIDLOTHIAN, VA 23112 PHONE: (804) 763-1200 FAX: (804) 763-1800 TOLL FREE (800) 476-5227 www.amerisci.com

AMERISCI Richmond Job No.#

EE	C, IN	IC		Suite Rale	2 Six Fo e 104, sigh, NC		7615		Spe		TRUCTIO	NS:		
	T INFORMATION	1	ANAL		6-8 HR	12	TUR HR 124 HR	<u>inar</u> 48	<u>oun</u> Hr	72 HR	O 5 DAY	Other		LTER IATION:
JOB NAME:			TEMA										MCE	
NCOU - Main	NCSU - Mann Hall Survey				Ō					6		PC	12-	
JOB NO.:			TEM/74	02							ta	6	25-MM	1급
N-23-39			TEM/B	ALK					_	۵			37-1414	
JOB MANAGER			TEMO	JST					-				0.45 UM	
	Donnie Mercer Jr. TEMMATER							_				0.86 UM		
	OB DESCRIPTION: PLM											OTHER:		
Asbestos Survey Samples - Page 3			PCM										1	
			OTHER								a		1	
RESULTS TO:			INVOICE TO: EEC. Inc EMAIL ADDRESS: mahrimanker@eecincorporate						RETURN					
EMAIL RESUL WRITTEN REP		E	ALL AD	DRESS	: mahrima	nker	Deecincorpora nercer/r@gmail	ted.co	mc	PHONE:	919	-291-6814		
	Positive Stop o							.com)	; 	FAX: SITE FA	¥.			
						PAGER/								
HGA ID	SAMPLE ID	[SAMPLE LOCATION / DESCRIPTION				8T/	NRT ME	STOP TIME		X LITERS	TOTAL	DATE	
16	MH-37		RM 115 / 3° Pipe Fitting Insulation										9-29-23	
17	MH-38		RM	117/3	" Pipe Ins	sulat	ion						<u>├</u>	tt
16	MH-39		RM 10)/4"P	ipe Fitting	i Insi	lation		·	<u> </u>	<u> </u>		· · · · · ·	
17	MH-40	@ SE (Corner D	loor to	RM 100 /	4" P	ipe Insulation				<u>├</u> ───	 	┝╼─┦	
17	MH-41		_		Pipe Inst		_					 	┢╌╌╴┨	
16	MH-42	Corrie	lor @ M	en's Ri	R 120 / 2"	Pipe	Fitting Ins.	t	_			<u> </u>		
17	MH-43				6" Pipe In	_		┢──						
16	MH-44				Pipe Fitting			 						
18	MH-45				rain 6" Pip	-							┟──┤	**
19A	MH-46				Lab Cour	_		╄──					┠──┤	
198	MH-47				Lab Count		<u> </u>					 		ei
190	MH-48				Lab Count		r					 		
19D	MH-49			· · · · · · · · · · · · · · · · · · ·	Lab Count		-		_			 		
20	MH-50A				" Gray Flo		<u> </u>		-		├ ── ─ ─		┢───┤	a
21	MH-50B				stic of MH	_		┣──			<u> </u>	 _	╞───┤	
21	MH-51A	 		_	off-white		_	┣			┣			
23	MH-51B				stic of MI			┣		- <u></u> -	┠	 	<u> </u>	-
<u>23</u> 24	MH-62A	1440-			_	_	ed Floor Tile	┣—				 	┠────┤	-
2 4 25	MH-52B				etic of MH			┣—			┣━━		┟───┤	
26	MH-53A				Actiled Ta		·				 	┨────	┠───┧	
). Mercer & S. H	·		TE/TIME	0.20.2	3	Received By:	<u>I</u>		<u> </u>	L	DAT	[] 'E/TIME:	
Relinquished f			DA	te/Time			Received in La	ab By:					e/Time:	

PLEASE SEND COPIES OF ALL LAB RESULTS TO EMAIL: MSHRIMANKER@EECINCORFORATED.COM

Received

OCT 04 2023





"HAIN OF CUSTODY RECORD 123101136 AMERISCI Richmond

Job No.#

AMERISCI NICHINA 13635 GENITO ROAD MIDLOTHIAN, VA 23112 PHONE: (804) 763-1200 FAX: (804) 763-1800 TOLL FREE (800) 478-5227 www.ameriaci.com

P.O.# 8502 Six Forks Road. EEC, INC SPECIAL INSTRUCTIONS: Suite 104, Raleigh, NC 27615 AMAL VOL
 TURNAROUND TIME (X)

 6-8 HR
 12 HR
 24 HR
 48 HR
 72 HR
 5 DAY
 Other
 AR FILTER **PROJECT INFORMATION** TYPE INFORMATION: JOB NAME: **TEM/AHERA** ۵ D 0 MC6 NCSU - Mann Hall Survey TEMALEVEL (PC JOB NO .: TEM/7402 Ō Ő 26-MM N-23-39 TEMABULK 0 Ô 37-MM JOB MANAGER: TEM/DUST 0 Ο 0.45 UM Donnie Mercer Jr. Õ TEMAWATER 0.85 LIN JOB DESCRIPTION: PLM Ô Π Ο OTHER: Asbestos Survey Samples -PCM Ō Ô Ô Page 4 OTHER Ο Ö Π **RESULTS TO: EEC Inc** INVOICE TO: EEC. Inc **RETURN SAMPLES:** NO E EMAIL RESULTS: Elecinc. (Copies to eccinc@gmail.com & dmercerjr@gmail.com) PHONE: 919-291-6814 FAX; COMMENTS: "Positive Stop on Samples of same HGA ID. SITE FAX: PAGER/CILL: START TIME X LITERS TOTAL 8T0P DATE **HGA ID** SAMPLE ID **SAMPLE LOCATION / DESCRIPTION** COLLECTED 27 MH-53B Mastic of MH-53A 9-29-23 22 MH-54A RM 323 / 12" Off-white Floor Tile -MH-548 28 Mastic of MH-54A . MH-55A 29 Elevator / 12" Off-white mottled Floor Tile 30 MH-558 Mestic of MH-55A . MH-56A 20 RM 201 / 9" Gray Floor Tile . 21 MH-56B Black Mastic of MH-56A . 2B MH-57 Corridor @ 404 / 252' Ceiling Panel MH-58 9 Women's RR 426 / Wall Plaster MH-59 Women's RR 322 / Wall Plaster 9 RM 113A / Wall Plaster 9 MH-60 8 10 **MH-61** RM 105 / Interior Door Caulking 10 MH-62 RM 406B / Interior Door Caulking 9-29-23 SAMPLED BY: D. Mercer & S. Halyard DATE/TIME: DATE/TIME-Received By: 1441 Hrs. DATE/TIME: DATE/TIME: Received in Lab By: **RELINQUISHED BY:** Receive

PLEASE SEND COPIES OF ALL LAS RESULTS TO EMAIL: MSHRIMANKERGEECINCORI/ORATED.COM

OCT 04 2023



13635 GENITO ROAD MIDLOTHIAN, VIRGINIA 23112 TEL: 8047631200 FAX: 8047631800

October 12, 2023

EEC INC Attn: Donnie Mercer Jr 8514 Six Forks Road Suite 101 Raleigh, NC 27615

RE: EEC INC Job Number 123101325 P.O. #N-23-39 N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples - Page 5

Dear Donnie Mercer Jr:

Enclosed are the results for PLM asbestos analysis of the following EEC INC samples received at AmeriSci on Monday, October 9, 2023, for a 3 day turnaround:

MH-63, MH-64, MH-65, MH-66, MH-67, MH-68, MH-69, MH-70, MH-71, MH-72, MH-73, MH-74, MH-75, MH-76

The 14 samples contained in zip lock bag were shipped to AmeriSci via Fed Ex 8175 6326 3407 B 855. These samples were prepared and analyzed according to EPA PLM Method (EPA 600/R-93/116 Section 2.2). The required analytical information, analysis results, analyst signature and laboratory identification are contained in the PLM Bulk Asbestos Report. If TEM analysis was requested for selected samples the gravimetric reduction data (by Sec 2.3) and TEM Asbestos % (by Sec 2.5) are included in Table 1 along with a summary of Asbestos % by PLM for all samples analyzed.

This report relates ONLY to the sample analysis expressed as % asbestos. AmeriSci assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology accreditation requirements mandate that this report must not be reproduced, except in full, without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

SUTP

Glenn F. Massey QA Manager | Authorized Signatory



AmeriSci Richmond

13635 GENITO ROAD MIDLOTHIAN, VIRGINIA 23112 TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

EEC INC Attn: Donnie Mercer Jr	Date Received Date Examined	10/09/23 10/12/23	AmeriSc P.O. #	i Job) #	123101325
8514 Six Forks Road	55		Page	•	of	5
Suite 101 Raleigh, NC 27615	RE: N-23-39; NC - Page 5	SU - Mann Ha	ll Survey; /	Asbe	stos S	urvey Samples
	- 5					

Client No. / HG	A Lab No.	Asbestos Present	Total % Asbesto			
MH-63 31	I-63 123101325-01 No Location: Main Roof Level - Southeast / Roof Core		NAD (by CVES) by C. David Mintz on 10/12/23			
Asbestos Ty	otion:Black, Heterogeneous, Fibrous, Roofing /pes: erial: Fibrous glass 4.0%, Non-fibrous 96%					
MH-64	123101325-02	No	NAD			
31	Location: Main Roof Level - North Middle / Roof Con	re	(by CVES) by C. David Mintz on 10/12/23			
Asbestos Ty	otion:Black, Heterogeneous, Fibrous, Roofing /pes: erial: Fibrous glass 4.0%, Non-fibrous 96%					
MH-65	123101325-03	No	NAD			
31	Location: Structural Lab Area - Southeast / Roof Co	re	(by CVES) by C. David Mintz on 10/12/23			
Asbestos Ty	otion:Black, Heterogeneous, Fibrous, Roofing /pes: erial: Fibrous glass 4.0%, Non-fibrous 96%					
MH-66	123101325-04	No	NAD			
31	Location: Lower (2nd Flr) Level -Northweast / Roof	Core	(by CVES) by C. David Mintz on 10/12/23			
Asbestos Ty	otion:Brown / Black, Heterogeneous, Fibrous, Roofing /pes: erial: Fibrous glass 3.0%, Non-fibrous 97%					
Other Mate		N -				
	123101325-05	Νο	NAD			
Other Mate MH-67 32	123101325-05 Location: Main Rf LvL - NNW Pene. / Roof Flash Se		NAD (by CVES) by C. David Mintz on 10/12/23			

N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples - Page 5

	GA Lab No.	Asbestos Present	Total % Asbestos
MH-68 33	123101325-06 Location: Main Rf LvL - NNW Pene. / Roof Flash		NAD (by CVES) by C. David Mintz on 10/12/23
Asbestos 1	i ption: Black, Homogeneous, Non-Fibrous, Bulk Mate Types: terial: Non-fibrous 100%	erial	
 MH-69	123101325-07	No	NAD
34	Location: Main Rf LvL - West Pene. / Roof Flash		(by CVES) by C. David Mintz on 10/12/23
Asbestos 1	i ption: White, Homogeneous, Non-Fibrous, Bulk Mat Types: terial: Non-fibrous 100%	erial	
MH-70	123101325-08	No	NAD
35	Location: Lwr Lvl Column - North / Roof Flash S	ealant	(by CVES) by C. David Mintz on 10/12/23
Analvst Descr	ption:Black, Homogeneous, Non-Fibrous, Bulk Mate	erial	
Asbestos 1			
Asbestos T Other Ma	Types: terial: Non-fibrous 100% 123101325-09	Yes	5.0%
Asbestos T Other Ma MH-71 36	Types: terial: Non-fibrous 100% 123101325-09 Location: Lwr Lvl Column - NE / Roof Flash Sea		5.0% (by CVES) by C. David Mintz on 10/12/23
Asbestos 1 Other Ma MH-71 36 Analyst Descri Asbestos 1	Types: terial: Non-fibrous 100% 123101325-09		(by CVES) by C. David Mintz
Asbestos 1 Other Ma MH-71 36 Analyst Descri Asbestos 1 Other Ma	Types: terial: Non-fibrous 100% 123101325-09 Location: Lwr Lvl Column - NE / Roof Flash Sea ption: Black, Homogeneous, Fibrous, Bulk Material Types: Chrysotile 5.0%		(by CVES) by C. David Mintz
Asbestos 1 Other Ma MH-71 36 Analyst Descri Asbestos 1	Types: terial: Non-fibrous 100% 123101325-09 Location: Lwr Lvl Column - NE / Roof Flash Sea ption: Black, Homogeneous, Fibrous, Bulk Material Types: Chrysotile 5.0% terial: Non-fibrous 95%	lant No	(by CVES) by C. David Mintz on 10/12/23

N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples - Page 5

Client No. / HGA	Lab N	o. Asbest	os Present	Total % Asbestos
MH-73	12310132	5-11	No	NAD
38	(by CVES) by C. David Mintz on 10/12/23			
Asbestos Typ	ion:Black/ Silver, Heterogeneous, Fibro bes: rial: Fibrous glass 4.0%, Non-fibrous 90			
	ent: Fiberglass-based mesh webbing ar		bedded in Tar	
			No	
MH-74 39	12310132 Location: Lwr Lvl Column - NE / Textu	NAD ¹ (by CVES) by C. David Mintz on 10/12/23		
Asbestos Typ Other Mater MH-75	oes: rial: Non-fibrous 100% 12310132	5-13	No	NAD ¹
39	Location: Lwr Lvl Column - NW / Text			(by CVES) by C. David Mintz on 10/12/23
Asbestos Typ	ion: Lt. Beige/ Gray, Homogeneous, No bes: rial: Non-fibrous 100%	n-Fibrous, Bulk Material		
 MH-76	12310132	5-14	No	NAD
40	Location: Lwr Lvl - NW Corn Pen / Ro	oof Flash Seal 2:09		(by CVES) by C. David Mintz on 10/12/23
Asbestos Typ	ion:Black, Homogeneous, Fibrous, Bul bes: 'ial: Fibrous glass 3.0%, Non-fibrous 9			

Reporting Notes:

(1) Sample homogenized by grinding to a powder prior to analysis.

Analyzed by: C. David Mintz Date: 10/12/2023

C Daried Mintz

Reviewed by: C. David Mintz

C Darid Mintz

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Olympus, Model BH-2 microscope, Serial #210972, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.



CHAIN OF CUSTODY RECORD

AMERISCI Richmond Job No.# AMERISCI RICHMOND 13635 GENITO ROAD MIDLOTHIAN, VA 23112 PHONE: (804) 763-1200 FAX: (804) 763-1800 TOLL FREE (800) 476-5227 www.amerisci.com

123-10-1325

			8502 Six Forks Road,				P.O.#					
EE	C, IN	IC		Suite 104,		5	SPECIAL INS	TRUCTIO	NS:			
	•, 11			eigh, NC	; 27	7615						
PROJEC	T INFORMATION	************************************	ALYSIS	6-8 HR	121	TUR HR 1 24 HR	NARO	UND TIME (X) 1.5 DAY	1.04	AIR F	
JOB NAME:		a ta para canta anta anta	<u>YPE</u> AHERA							Other		
NCSU - Mar	nn Hall Survey										MCE PC	
JOB NO.: TEM/74											25-MM	
N-23-39			BULK								37-MM	
JOB MANAGE	R:	TEM	DUST							15	0.45 UM	
Donnie Mei	rcer Jr.	TEM	WATER								0.85 UM	
JOB DESCRIP		PLM									OTHER:	1
Asbestos S Page 5	urvey Samples	S- PCN									1	
l ago o		ОТН	ER									
RESULTS TO	: EEC Inc		INVO	ICE TO:	EE	C. Inc		RETUR		IS:		
EMAIL RESUL						@eecincorporat			: 919	-291-6814	ł	
	*Positive Stop o				& un	nercerjr@gmail.	.com)	FAX:	<u></u>			
	·							PAGER				
HGA ID	SAMPLE ID	SAN	IPLE LOC	ATION / DI	ESCI	RIPTION	STAR		TOTAL	X LITERS	TOTAL VOLUME	DATE COLLECTED
31	MH-63	Main Ro	of Level -	- Southeas	st / R	loof Core				T		10-6-23
31	MH-64	Main Roo	of Level -	North mid	dle /	Roof Core						ti.
31	MH-65	Structura	Lab Are	a - Southe	ast /	Roof Core						51
31	MH-66	Lower (2nd	Fir.) Lev	el - Northe	ast	/ Roof Core						u
32	MH-67	Main Rf. Lv	INNW F	Pene./Roo	f Fla	sh. Sealant						
33	MH-68	Main Rf. Lv	INNW	Pene./Roo	f Fla	sh. Sealant						17
34	MH-69	Main Rf. Lv	/IWest I	Pene./Roo	f Fla	sh. Sealant					1	0
35	MH-70	Lwr. Lvl. C	olumn - N	North / Roc	of Fla	ash. Sealant				1		U
36	MH-71	Lwr. Lvl. (Column -	NE/ Roof	Flas	h. Sealant						n
37	MH-72	Lwr. Lvl	NNE Pe	ne./ Roof	Flas	h. Sealant						"
38	MH-73	Lwr. Lvl	Middle P	en./ Roof	Flas	h. Sealant						0
39	MH-74	Lwr. Lvl. C	olumn -	NE/ Textu	red F	-inish Coat			-	1		u
39	MH-75	Lwr. Lvl. C	olumn - I	NW/ Textu	red	Finish Coat				1		TI
40	MH-76	Lwr. Ivl N	N corn. F	Pen./Roof	Flas	h. Seal.2:09						0
								_	1		1	
····												
	<u> </u>								· · · · · ·			
SAMPLED BY:	Donnie Mer	cer Jr.	DATE/TIME	10-6-2 1545 Hi		Received By:	I	I	.	DA	TE/TIME:	
RELINQUISHED	BY:		DATE/TIM	=:		Received in La	ıb By:			DA	re/Time:	

PLEASE SEND COPIES OF ALL LAB RESULTS TO EMAIL: MSHRIMANKER@EECINCORPORATED.COM

Received





13635 GENITO ROAD MIDLOTHIAN, VIRGINIA 23112 TEL: 8047631200 FAX: 8047631800

October 19, 2023

EEC INC Attn: Donnie Mercer Jr 8514 Six Forks Road Suite 101 Raleigh, NC 27615

RE: EEC INC Job Number 123101706 P.O. #N-23-39 N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples - Page 6

Dear Donnie Mercer Jr:

Enclosed are the results for PLM asbestos analysis of the following EEC INC samples received at AmeriSci on Wednesday, October 18, 2023, for a 24 hour turnaround:

MH-77A, MH-77B, MH-78A, MH-78B

The 4 samples contained in zip lock bag were shipped to AmeriSci via Fed Ex 8175 6326 3418 B 925. These samples were prepared and analyzed according to EPA PLM Method (EPA 600/R-93/116 Section 2.2). The required analytical information, analysis results, analyst signature and laboratory identification are contained in the PLM Bulk Asbestos Report. If TEM analysis was requested for selected samples the gravimetric reduction data (by Sec 2.3) and TEM Asbestos % (by Sec 2.5) are included in Table 1 along with a summary of Asbestos % by PLM for all samples analyzed.

This report relates ONLY to the sample analysis expressed as % asbestos. AmeriSci assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology accreditation requirements mandate that this report must not be reproduced, except in full, without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

SUTP

Glenn F. Massey QA Manager | Authorized Signatory



AmeriSci Richmond

13635 GENITO ROAD MIDLOTHIAN, VIRGINIA 23112 TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

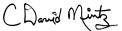
EEC INC Attn: Donnie Mercer Jr	Date Received 10/18/23 Date Examined 10/19/23	AmeriSci Job # 12310170 P.O. #)6
8514 Six Forks Road		Page 1 of 2	
Suite 101	RE: N-23-39; NCSU - Mann H	all Survey; Asbestos Survey Samp	oles
Raleigh, NC 27615	- Page 6		

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
MH-77A	123101706-01	Yes	3.0%
Loca	ation: RM 105/12" Greenish-White Streaks Floor	Tile	(by CVES) by C. David Mintz on 10/19/23
Analyst Description: G Asbestos Types: C Other Material: N	•		
MH-77B	123101706-02		NA
Loca	ation: Mastic Of MH-77A		
Analyst Description: In Asbestos Types: Other Material:	nsufficient Material		
MH-78A	123101706-03	Νο	NAD
Loca	ation: RM 204/12" Mottled Off-White & Gray Floo	r Tile	(by CVES) by C. David Mintz on 10/19/23
Analyst Description: O Asbestos Types: Other Material: N	ff-White - Grey, Homogeneous, Non-Fibrous, Flo on-fibrous 100%	or Tile	
MH-78B	123101706-04	No	NAD
Loca	ation: Mastic Of MH-78A		(by CVES) by C. David Mintz on 10/19/23
Asbestos Types:	lack, Homogeneous, Fibrous, Mastic ellulose 3.0%, Non-fibrous 97%		

N-23-39; NCSU - Mann Hall Survey; Asbestos Survey Samples - Page 6

Reporting Notes:

Analyzed by: C. David Mintz Date: 10/19/2023



Reviewed by: C. David Mintz

C Darvid Mintz

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Olympus, Model BH-2 microscope, Serial #210972, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.



CHAIN OF CUSTODY RECORD

AMERISCI RICHMOND 13635 GENITO ROAD MIDLOTHIAN, VA 23112 PHONE: (804) 763-1200 FAX: (804) 763-1800 TOLL FREE (800) 476-5227 www.amerisci.com

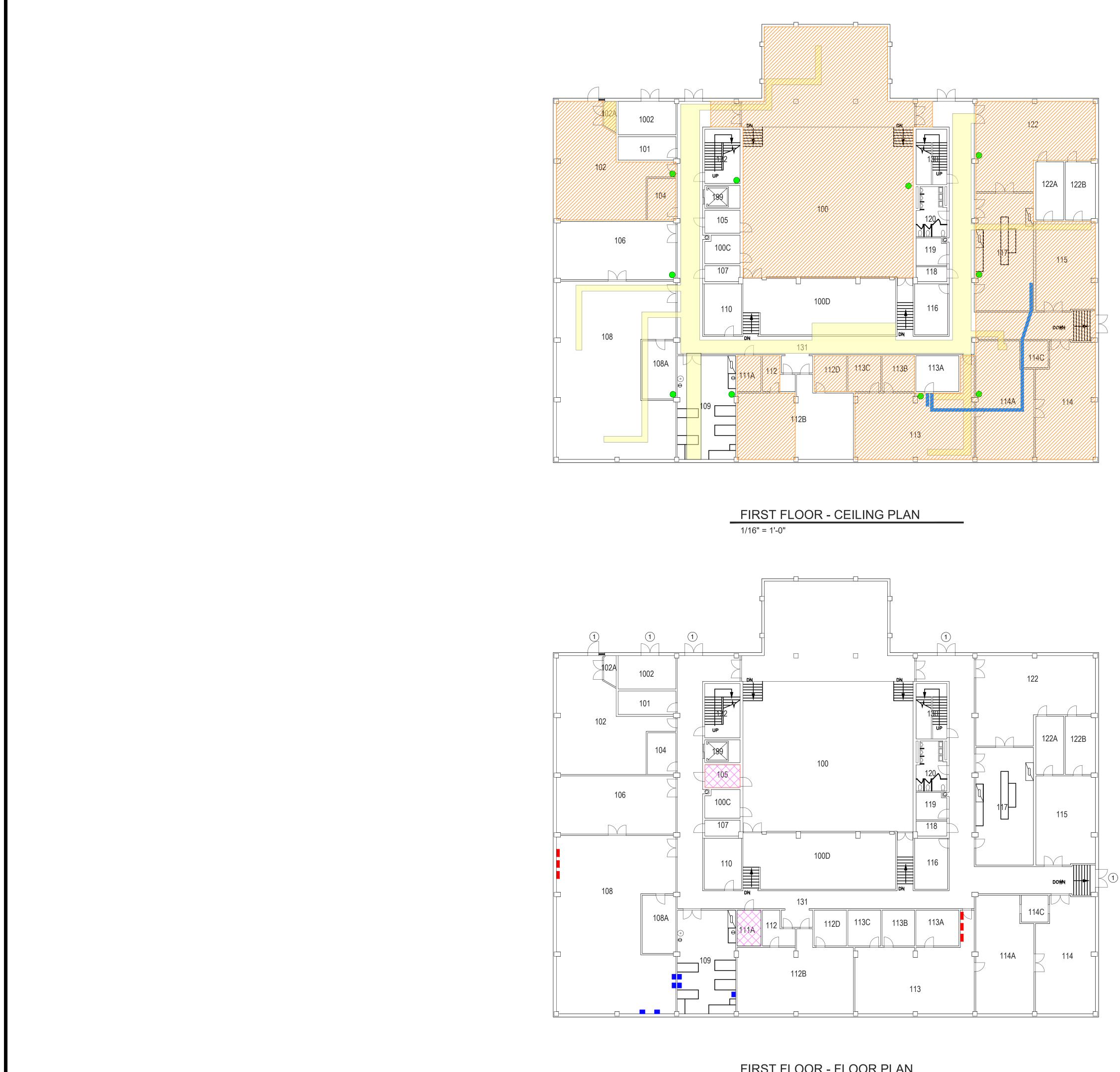
DCT 1 8 2023

AMERISCI Richmond Job No.#

123101706

EE	C, IN	C		Suite	2 Six Fo 2 104, igh, NC			·		SPE	O.# CIAL INST		NS:		
PROJECT	INFORMATION		ANA Ty	LYSIS	6-8 HR 1	12 H	RT	TUR 24 HR	NAR 48	dun Hr	D TIME (X) 5 DAY	Other	AIR F	LTER MATION:
JOB NAME:			TEM/A											MCE	
NCSU - Manr	n Hall Survey		TEMAL	EVEL II										PC	
JOB NO.:			TEM/74	402										25-MM	
N-23-39			TEM/B	ULK			1							37-MM	
JOB MANAGER	:		TEM/D	UST			1							0.45 UM	
Donnie Merc	er Jr.		TEM/M	ATER			1							0.85 UM	
JOB DESCRIPT			PLM					X						OTHER:	
Asbestos Su Page 6	rvey Samples	-	PCM	- ,-			T I]	
i aye u			OTHER	2			t i								
RESULTS TO:	EEC Inc				CE TO:		C. Inc				RETURN				NO M
EMAIL RESULT	rs: 🔀	E	MAIL AD	DRESS	mshrima	nker@	@eecin	corporat	ed.co	m	PHONE:	919	-291-6814		
WRITTEN REPO	Positive Stop of	inc. (C	opies to	eecinc@ ame HC	gmail.com	& am	iercerji	i@gmail.	com)		FAX: SITE FA	X +			
COMMENTS:	, Jointo Otop Ol	. womp									PAGER/				
HGA ID	SAMPLE ID		SAMP	LE LOC	ATION / DI	ESCR	NPTIO	N	STA		STOP TIME			TOTAL VOLUME	DATE COLLECTED
41	MH-77A	RM 10			sh-White s					HL	1 (1412.				10-16-23
40	MH-77B			Masti	c of MH-7	7A									
42	MH-78A	RM 2	04/ 12"	Mottled	Off-white	& Gr	rav Fk	oor Tile	5				1		11
43	MH-78B				of MH-78										17
													<u> </u>		
													+		
													<u> </u>		
													+		
	<u> </u>				<u></u> ,										
	~.										<u> </u>		<u> </u>		
									 				<u> </u>	<u> </u>	
													 	L	
											L		<u> </u>		
								_							
					······								_		
					···						1				
\	<u> </u>	<u> </u>			,									T	
		†	<u> </u>	,											
		<u> </u>						<u>.</u>	1		1			1	
SAMPLED BY:	Donnie Mer	cer Jr.	D	ATE/TIME	10-16-3 1800 H		Recei	ived By:	<u>, </u>			<u>.</u>	DA	Te/Time:	
Relinquished I	BY:		D	ATE/TIM	≣:		Recei	ived in La	ab By	:			DA	TE/TIME:	Received

PLEASE SEND COPIES OF ALL LAB RESULTS TO EMAIL: MSHRIMANKER@EECINCORPORATED.COM



FIRST FLOOR - FLOOR PLAN

1/16" = 1'-0"

LEGEND - MANN HALL FIRST FLOOR

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING SPRAY APPLIED CEILING TEXTURE FROM CONCRETE BEAMS AND DECKING
REMOVE AND DISPOSE OF ASBESTOS-CONTAINING THERMAL SYSTEM PIPE INSULATION AND FITTINGS
REMOVE AND DISPOSE OF ASBESTOS-CONTAINING CEMENTIOUS PIPE
REMOVE AND DISPOSE OF ASBESTOS-CONTAINING 12"X12" GREEN FLOOR TILE FROM ROOM 105
REMOVE AND DISPOSE OF ASBESTOS-CONTAINING AND PCB CONTAINING INTERIOR DOOR CAULK FROM ALL DOOR FRAMES AND ADJACENT SUBSTRATES.
 REMOVE AND DISPOSE OF ASBESTOS-CONTAINING CHALK BOARD/CORK BOARD MASTIC
REMOVE AND DISPOSE OF ASBESTOS-CONTAINING DRAIN LINE INSULATION AND FITTINGS
REMOVE AND DISPOSE OF ASBESTOS-CONTAINING SINK MASTIC
REMOVE AND DISPOSE OF PCB DOOR CAULK ON BOTH SIDES OF DOOR
REMOVE AND DISPOSE OF PCB DUCT MASTIC FOUND ON EXTERIOR AND INTERIOR INSULATION THROUGHOUT FIRST FLOOR

GENERAL NOTES

THE SCOPE OF WORK INCLUDES THE REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING SPRAY APPLIED TEXTURE FROM CONCRETE BEAMS AND CEILINGS, FLOOR TILE, FLOOR TILE MASTIC, CEILING TILES, TRANSITE PIPE, THERMAL SYSTEM PIPE INSULATION, ROOF DRAIN INSULATION, CHALK BOARD MASTIC, CORK BOARD MASTIC, INTERIOR DOOR CAULKING, EXTERIOR FRONT STOREFRONT CAULKING, TOWER WINDOW CAULKING AND ROOF FLASHING MASTIC.

THE SCOPE OF WORK ALSO INCLUDES REMOVAL AND DISPOSAL OF PCB DOOR CAULK, WINDOW CAULK, VENT CAULK, DUCT MASTIC, BLOCK FILLER/PAINT, AND WINDOW GLAZING AS DESCRIBED IN THE ATTACHED PCB REMEDIATION PLAN.

THE SCOPE OF WORK ALSO INCLUDES THE DEMOLITION AND DISPOSAL OF INTERIOR WALLS WITH PCB BLOCK FILLER/PAINT INSIDE FULL NEGATIVE PRESSURE ENCLOSURES.

THIS DRAWING ACCOMPANIES ASBESTOS ABATEMENT TECHNICAL SPECIFICATIONS.

ASBESTOS ABATEMENT MUST BE PERFORMED INSIDE BOUNDARIES INDICATED ON THIS DRAWING.

THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE SITE PRIOR TO BIDDING TO CONFIRM THE SCOPE OF THE WORK. BOUNDARIES AND LOCATIONS ARE APPROXIMATE. ANY QUANTITIES LISTED BY THE DESIGNER IN THE PLANS AND SPECIFICATIONS ARE DONE SO AS APPROXIMATIONS. THE ACTUAL QUANTITIES OF ASBESTOS-CONTAINING AND PCB MATERIAL TO BE ENCOUNTERED ARE THE RESPONSIBILITY OF THE ABATEMENT CONTRACTOR.

ASBESTOS ABATEMENT MUST BE PERFORMED INSIDE THE CONTAINMENT BOUNDARIES INDICATED ON THIS DRAWING AND INSIDE FULL NEGATIVE PRESSURE ENCLOSURES.

ESTIMATED QUANTITIES OF ASBESTOS-CONTAINING MATERIALS THROUGHOUT BUILDING

SPRAY APPLIED CEILING TEXTURE 20,000 SQUARE FEET

FLOOR TILE AND FLOOR TILE MASTIC 26,300 SQUARE FEET

12"X12" SPLINE CEILING TILES 33,000 SQUARE FEET

CEMENTITIOUS PIPE 100 LINEAR FEET

THERMAL SYSTEM PIPE INSULATION AND FITTINGS 2,000 LINEAR FEET

DRAIN LINE INSULATION 500 LINEAR FEET

CHALK BOARD MASTIC 500 SQUARE FEET

INTERIOR DOOR CAULK 202 DOOR FRAMES

SINK MASTIC 7 SINKS

EXTERIOR ROOF FLASHING MASTIC AND CURBING MASTIC - 100 SQUARE FEET

0 4' 8' 12' 16'

32'

48'

EXTERIOR WINDOW/DOOR CAULK - 2 FRONT ENTRY STORE FRONTS

EXTERIOR WINDOW GLAZING - SOUTH TOWER WINDOWS

PCB STOREFRONT CAULK - 2 EXTERIOR FRONT ENTRY STORE FRONTS

PCB STOREFRONT CAULK - 4 EXTERIOR REAR DOOR COMPLEXES

PCB WINDOW CAULK - SOUTH TOWER WINDOWS

PCB VENT CAULK - 6 EXTERIOR VENTS

PCB DOOR CAULK - 202 INTERIOR DOORS

PCB BLOCK WALLS - 50,000 SQUARE FEET

PCB DUCT INSULATION - 7,500 SQUARE FEET



4035

ASBESTOS

NCSU

Health & Safety Consultants, L.L.C.



GREGG HEPPERT N.C. ASBESTOS DESIGNER NO.40357 DATE: 11-13-24 DRAWN BY: ACS

CHECKED BY: G.E.H. APPROVED BY: G.E.H.

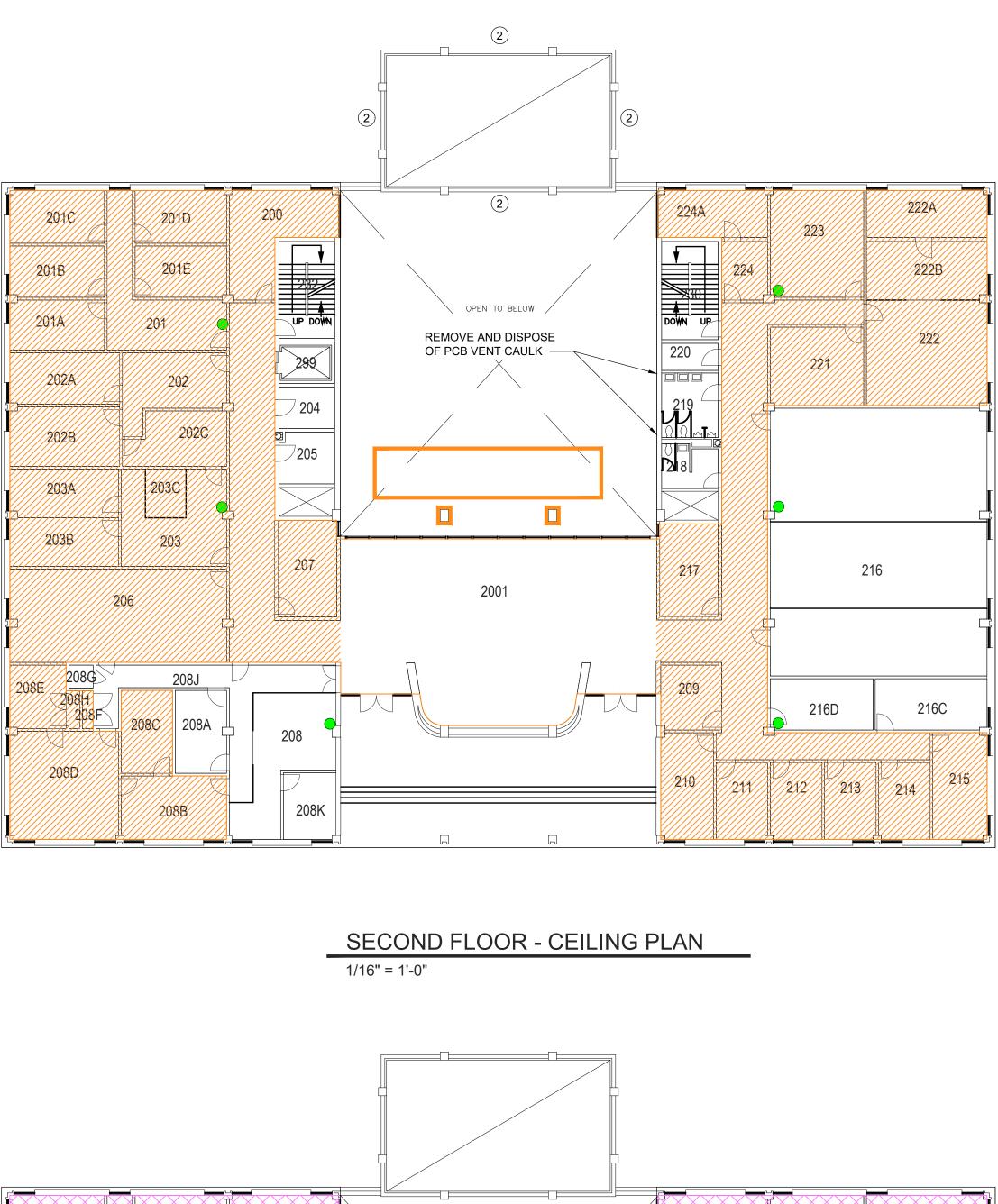
STAMP

No	Revis	sion	Date
Si	te:	RALEIGH	
Bu	uilding:	MANN HA	_L
Zo	ne / Floor:	FIRST	
	scipline:		
Pr	oject:		
Sc	ale:	1/16 "=1'-0	
тіт	LE:		

ASBESTOS ABATEMENT PLAN FIRST FLOOR

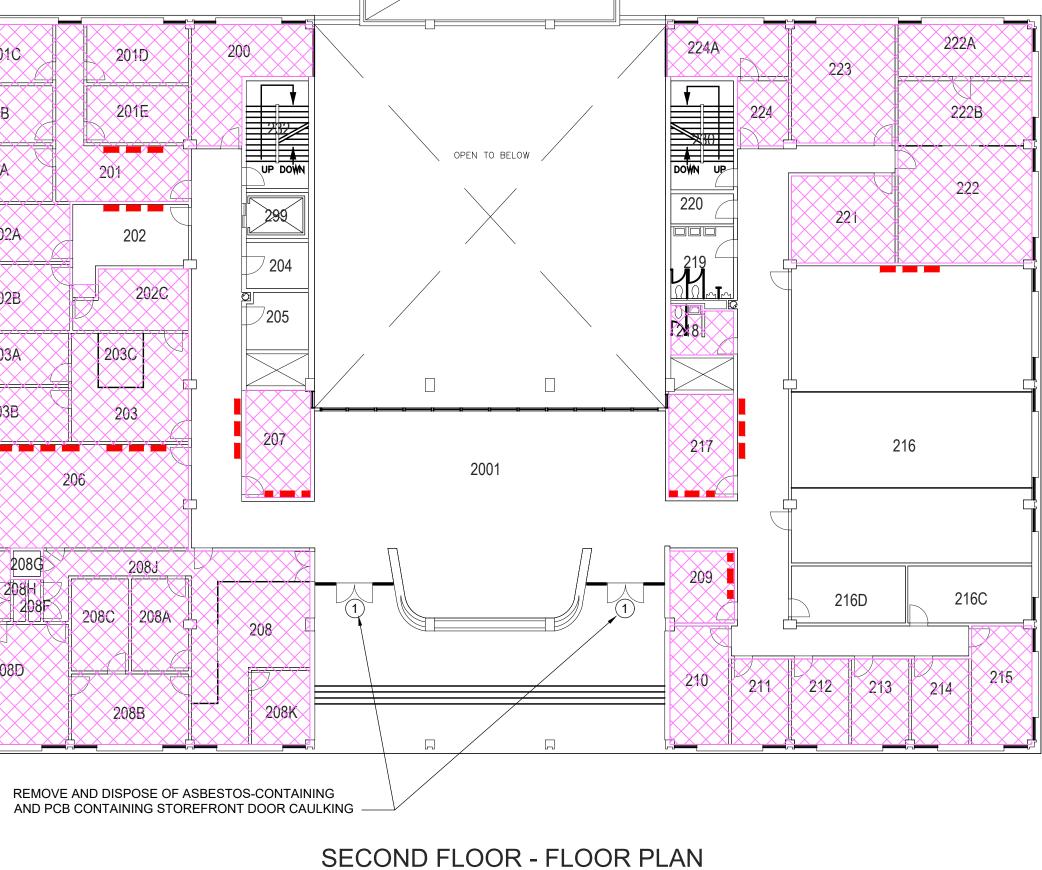
Drawing Number: AB-1

Rev:



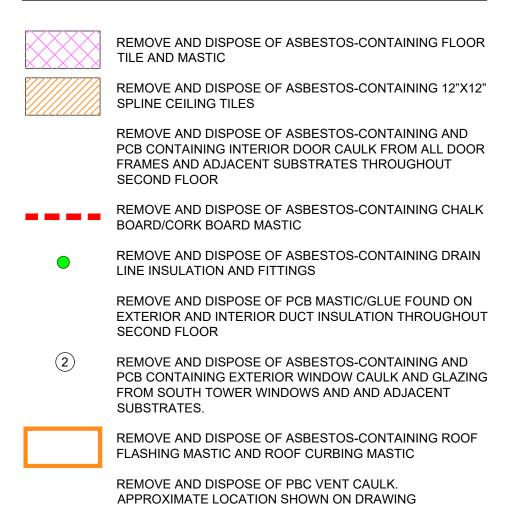


208E



1/16" = 1'-0"

LEGEND - MANN HALL SECOND FLOOR





THE SCOPE OF WORK INCLUDES THE REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING SPRAY APPLIED TEXTURE FROM CONCRETE BEAMS AND CEILINGS, FLOOR TILE, FLOOR TILE MASTIC, CEILING TILES, TRANSITE PIPE, THERMAL SYSTEM PIPE INSULATION, ROOF DRAIN INSULATION, CHALK BOARD MASTIC, CORK BOARD MASTIC, INTERIOR DOOR CAULKING, EXTERIOR FRONT STOREFRONT CAULKING, TOWER WINDOW CAULKING AND ROOF FLASHING MASTIC.

THE SCOPE OF WORK ALSO INCLUDES REMOVAL AND DISPOSAL OF PCB DOOR CAULK, WINDOW CAULK, VENT CAULK, DUCT MASTIC, BLOCK FILLER/PAINT, AND WINDOW GLAZING AS DESCRIBED IN THE ATTACHED PCB REMEDIATION PLAN.

THE SCOPE OF WORK ALSO INCLUDES THE DEMOLITION AND DISPOSAL OF INTERIOR WALLS WITH PCB BLOCK FILLER/PAINT INSIDE FULL NEGATIVE PRESSURE ENCLOSURES.

THIS DRAWING ACCOMPANIES ASBESTOS ABATEMENT TECHNICAL SPECIFICATIONS.

ASBESTOS ABATEMENT MUST BE PERFORMED INSIDE BOUNDARIES INDICATED ON THIS DRAWING.

THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE SITE PRIOR TO BIDDING TO CONFIRM THE SCOPE OF THE WORK. BOUNDARIES AND LOCATIONS ARE APPROXIMATE. ANY QUANTITIES LISTED BY THE DESIGNER IN THE PLANS AND SPECIFICATIONS ARE DONE SO AS APPROXIMATIONS. THE ACTUAL QUANTITIES OF ASBESTOS-CONTAINING AND PCB MATERIAL TO BE ENCOUNTERED ARE THE RESPONSIBILITY OF THE ABATEMENT CONTRACTOR.

ASBESTOS ABATEMENT MUST BE PERFORMED INSIDE THE CONTAINMENT BOUNDARIES INDICATED ON THIS DRAWING AND INSIDE FULL NEGATIVE PRESSURE ENCLOSURES.

ESTIMATED QUANTITIES OF ASBESTOS-CONTAINING MATERIALS THROUGHOUT BUILDING

SPRAY APPLIED CEILING TEXTURE 20,105 SQUARE FEET

FLOOR TILE AND FLOOR TILE MASTIC 27,300 SQUARE FEET

12"X12" SPLINE CEILING TILES 33,000 SQUARE FEET

CEMENTITIOUS PIPE 100 LINEAR FEET

THERMAL SYSTEM PIPE INSULATION AND FITTINGS 2,000 LINEAR FEET

DRAIN LINE INSULATION 500 LINEAR FEET

CHALK BOARD MASTIC 500 SQUARE FEET

INTERIOR DOOR CAULK 202 DOOR FRAMES

SINK MASTIC 7 SINKS

EXTERIOR ROOF FLASHING MASTIC AND CURBING MASTIC - 100 SQUARE FEET

EXTERIOR WINDOW/DOOR CAULK - 2 FRONT ENTRY STORE FRONTS EXTERIOR WINDOW GLAZING - SOUTH TOWER WINDOWS

PCB STOREFRONT CAULK - 2 EXTERIOR FRONT ENTRY STORE FRONTS

0 4' 8' 12' 16'

32'

48'

PCB STOREFRONT CAULK - 4 EXTERIOR REAR DOOR COMPLEXES

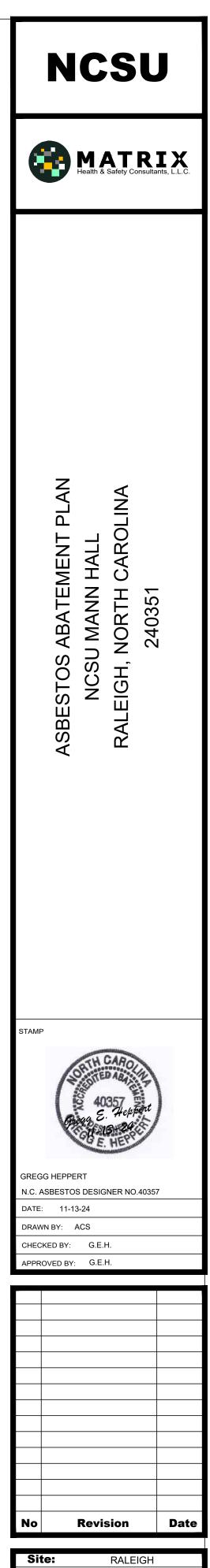
PCB WINDOW CAULK - SOUTH TOWER WINDOWS

PCB VENT CAULK - 6 EXTERIOR VENTS

PCB DOOR CAULK - 202 INTERIOR DOORS

PCB BLOCK WALLS - 50,000 SQUARE FEET

PCB DUCT INSULATION - 7,500 SQUARE FEET



MANN HALL **Building:** Zone / Floor: SECOND **Discipline: Project:** 1/16 "=1'-0" Scale: TITLE: ASBESTOS ABATEMENT PLAN

SECOND FLOOR

Rev:

Drawing Number: AB-2



THIRD FLOOR - FLOOR PLAN

1/16" = 1'-0"

LEGEND - MANN HALL THIRD FLOOR

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING FLOOR TILE AND MASTIC

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING 12"X12" SPLINE CEILING TILES

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING AND PCB CONTAINING INTERIOR DOOR CAULK FROM ALL DOOR FRAMES AND ADJACENT SUBSTRATES THROUGHOUT THIRD FLOOR

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING CHALK BOARD/CORK BOARD MASTIC

> REMOVE AND DISPOSE OF ASBESTOS-CONTAINING DRAIN LINE INSULATION AND FITTINGS

REMOVE AND DISPOSE OF PCB DUCT MASTIC FOUND ON EXTERIOR INSULATION THROUGHOUT THIRD FLOOR

REMOVE AND DISPOSE OF PBC VENT CAULK. APPROXIMATE LOCATION SHOWN ON DRAWING

REMOVE AND DISPOSE OF PCB MASTIC/GLUE FOUND ON EXTERIOR AND INTERIOR DUCT INSULATION THROUGHOUT THIRD FLOOR

GENERAL NOTES

THE SCOPE OF WORK INCLUDES THE REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING SPRAY APPLIED TEXTURE FROM CONCRETE BEAMS AND CEILINGS, FLOOR TILE, FLOOR TILE MASTIC, CEILING TILES, TRANSITE PIPE, THERMAL SYSTEM PIPE INSULATION, ROOF DRAIN INSULATION, CHALK BOARD MASTIC, CORK BOARD MASTIC, INTERIOR DOOR CAULKING, EXTERIOR FRONT STOREFRONT CAULKING, TOWER WINDOW CAULKING AND ROOF FLASHING MASTIC.

THE SCOPE OF WORK ALSO INCLUDES REMOVAL AND DISPOSAL OF PCB DOOR CAULK, WINDOW CAULK, VENT CAULK, DUCT MASTIC, BLOCK FILLER/PAINT, AND WINDOW GLAZING AS DESCRIBED IN THE ATTACHED PCB REMEDIATION PLAN.

THE SCOPE OF WORK ALSO INCLUDES THE DEMOLITION AND DISPOSAL OF INTERIOR WALLS WITH PCB BLOCK FILLER/PAINT INSIDE FULL NEGATIVE PRESSURE ENCLOSURES.

THIS DRAWING ACCOMPANIES ASBESTOS ABATEMENT TECHNICAL SPECIFICATIONS.

ASBESTOS ABATEMENT MUST BE PERFORMED INSIDE BOUNDARIES INDICATED ON THIS DRAWING.

THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE SITE PRIOR TO BIDDING TO CONFIRM THE SCOPE OF THE WORK. BOUNDARIES AND LOCATIONS ARE APPROXIMATE. ANY QUANTITIES LISTED BY THE DESIGNER IN THE PLANS AND SPECIFICATIONS ARE DONE SO AS APPROXIMATIONS. THE ACTUAL QUANTITIES OF ASBESTOS-CONTAINING AND PCB MATERIAL TO BE ENCOUNTERED ARE THE RESPONSIBILITY OF THE ABATEMENT CONTRACTOR.

ASBESTOS ABATEMENT MUST BE PERFORMED INSIDE THE CONTAINMENT BOUNDARIES INDICATED ON THIS DRAWING AND INSIDE FULL NEGATIVE PRESSURE ENCLOSURES.

ESTIMATED QUANTITIES OF ASBESTOS-CONTAINING MATERIALS THROUGHOUT BUILDING

SPRAY APPLIED CEILING TEXTURE 20,105 SQUARE FEET

FLOOR TILE AND FLOOR TILE MASTIC 27,300 SQUARE FEET

12"X12" SPLINE CEILING TILES 33,000 SQUARE FEET

CEMENTITIOUS PIPE 100 LINEAR FEET

THERMAL SYSTEM PIPE INSULATION AND FITTINGS 2,000 LINEAR FEET

DRAIN LINE INSULATION 500 LINEAR FEET

CHALK BOARD MASTIC 500 SQUARE FEET

INTERIOR DOOR CAULK 202 DOOR FRAMES

SINK MASTIC 7 SINKS

EXTERIOR ROOF FLASHING MASTIC AND CURBING MASTIC - 100 SQUARE FEET

0 4' 8' 12' 16'

32'

48'

EXTERIOR WINDOW/DOOR CAULK - 2 FRONT ENTRY STORE FRONTS

EXTERIOR WINDOW GLAZING - SOUTH TOWER WINDOWS

PCB STOREFRONT CAULK - 2 EXTERIOR FRONT ENTRY STORE FRONTS

PCB STOREFRONT CAULK - 4 EXTERIOR REAR DOOR COMPLEXES

PCB WINDOW CAULK - SOUTH TOWER WINDOWS

PCB VENT CAULK - 6 EXTERIOR VENTS

PCB DOOR CAULK - 202 INTERIOR DOORS

PCB BLOCK WALLS - 50,000 SQUARE FEET

PCB DUCT INSULATION - 7,500 SQUARE FEET



AN

Ц

CAROLINA

RALEIGH, I

S ABATEMENT F U MANN HALL , NORTH CAROI 240351

SU

S

STOS

Ш́

SBI

NCSU



GREGG HEPPERT	
N.C. ASBESTOS DESIGNER NO.4035	7
DATE: 11-13-24	
DRAWN BY: ACS	
CHECKED BY: G.E.H.	
APPROVED BY: G.E.H.	

	Revis	lon	Date
No	Revis	SIOII	Date
NO	Kevi	SIOII	Date
NO Sit		RALEIGH	Date
Sit	te:		
Sit Bu	te:	RALEIGH MANN HAI	
Sit Bu Zo	te: iilding:	RALEIGH MANN HAI	
Sit Bu Zo Dis	te: iilding: ne / Floor:	RALEIGH MANN HAI	
Sit Bu Zo Dis Pre	te: iilding: one / Floor: scipline:	RALEIGH MANN HAI	
Sit Bu Zo Dis Pre	te: iilding: one / Floor: scipline: oject: ale:	RALEIGH MANN HAI THIRD	

Drawing Number:

AB-3

Rev:

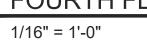




FOURTH FLOOR - FLOOR PLAN

-	-	-	÷.,	-	-		
1/	16'	' =	1	'-	0	••	





FOURTH FLOOR - CEILING PLAN

LEGEND - MANN HALL FOURTH FLOOR

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING FLOOR TILE AND MASTIC

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING 12"X12" SPLINE CEILING TILES

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING AND PCB CONTAINING INTERIOR DOOR CAULK FROM ALL DOOR FRAMES AND ADJACENT SUBSTRATES THROUGHOUT FOURTH FLOOR

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING CHALK BOARD/CORK BOARD MASTIC

> REMOVE AND DISPOSE OF ASBESTOS-CONTAINING DRAIN LINE INSULATION AND FITTINGS

REMOVE AND DISPOSE OF PCB DUCT MASTIC FOUND ON EXTERIOR INSULATION THROUGHOUT FOURTH FLOOR

REMOVE AND DISPOSE OF PBC VENT CAULK. APPROXIMATE LOCATION SHOWN ON DRAWING

REMOVE AND DISPOSE OF PCB MASTIC/GLUE FOUND ON EXTERIOR AND INTERIOR DUCT INSULATION THROUGHOUT FOURTH FLOOR

GENERAL NOTES

THE SCOPE OF WORK INCLUDES THE REMOVAL AND DISPOSAL OF ASBESTOS-CONTAINING SPRAY APPLIED TEXTURE FROM CONCRETE BEAMS AND CEILINGS, FLOOR TILE, FLOOR TILE MASTIC, CEILING TILES, TRANSITE PIPE, THERMAL SYSTEM PIPE INSULATION, ROOF DRAIN INSULATION, CHALK BOARD MASTIC, CORK BOARD MASTIC, INTERIOR DOOR CAULKING, EXTERIOR FRONT STOREFRONT CAULKING, TOWER WINDOW CAULKING AND ROOF FLASHING MASTIC.

THE SCOPE OF WORK ALSO INCLUDES REMOVAL AND DISPOSAL OF PCB DOOR CAULK, WINDOW CAULK, VENT CAULK, DUCT MASTIC, BLOCK FILLER/PAINT, AND WINDOW GLAZING AS DESCRIBED IN THE ATTACHED PCB REMEDIATION PLAN.

THE SCOPE OF WORK ALSO INCLUDES THE DEMOLITION AND DISPOSAL OF INTERIOR WALLS WITH PCB BLOCK FILLER/PAINT INSIDE FULL NEGATIVE PRESSURE ENCLOSURES.

THIS DRAWING ACCOMPANIES ASBESTOS ABATEMENT TECHNICAL SPECIFICATIONS.

ASBESTOS ABATEMENT MUST BE PERFORMED INSIDE BOUNDARIES INDICATED ON THIS DRAWING.

THE ABATEMENT CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING THE SITE PRIOR TO BIDDING TO CONFIRM THE SCOPE OF THE WORK. BOUNDARIES AND LOCATIONS ARE APPROXIMATE. ANY QUANTITIES LISTED BY THE DESIGNER IN THE PLANS AND SPECIFICATIONS ARE DONE SO AS APPROXIMATIONS. THE ACTUAL QUANTITIES OF ASBESTOS-CONTAINING AND PCB MATERIAL TO BE ENCOUNTERED ARE THE RESPONSIBILITY OF THE ABATEMENT CONTRACTOR.

ASBESTOS ABATEMENT MUST BE PERFORMED INSIDE THE CONTAINMENT BOUNDARIES INDICATED ON THIS DRAWING AND INSIDE FULL NEGATIVE PRESSURE ENCLOSURES.

ESTIMATED QUANTITIES OF ASBESTOS-CONTAINING MATERIALS THROUGHOUT BUILDING

SPRAY APPLIED CEILING TEXTURE 20,105 SQUARE FEET

FLOOR TILE AND FLOOR TILE MASTIC 27,300 SQUARE FEET

12"X12" SPLINE CEILING TILES 33,000 SQUARE FEET

CEMENTITIOUS PIPE 100 LINEAR FEET

THERMAL SYSTEM PIPE INSULATION AND FITTINGS 2,000 LINEAR FEET

DRAIN LINE INSULATION 500 LINEAR FEET

CHALK BOARD MASTIC 500 SQUARE FEET

INTERIOR DOOR CAULK 202 DOOR FRAMES

SINK MASTIC 7 SINKS

EXTERIOR ROOF FLASHING MASTIC AND CURBING MASTIC - 100 SQUARE FEET

EXTERIOR WINDOW/DOOR CAULK - 2 FRONT ENTRY STORE FRONTS

EXTERIOR WINDOW GLAZING - SOUTH TOWER WINDOWS

PCB STOREFRONT CAULK - 2 EXTERIOR FRONT ENTRY STORE FRONTS

0 4' 8' 12' 16'

32'

48'

PCB STOREFRONT CAULK - 4 EXTERIOR REAR DOOR COMPLEXES

PCB WINDOW CAULK - SOUTH TOWER WINDOWS

PCB VENT CAULK - 6 EXTERIOR VENTS

PCB DOOR CAULK - 202 INTERIOR DOORS

PCB BLOCK WALLS - 50,000 SQUARE FEET

PCB DUCT INSULATION - 7,500 SQUARE FEET



SU

RALEIGH, I

SO

Ш́

SBI

STC NC

NCSU

Health & Safety Consultants, L.L.C.





GREGG HEPPERT N.C. ASBESTOS DESIGNER NO.40357 DATE: 11-13-24

DRAWN BY: ACS CHECKED BY: G.E.H.

VPPROVED BY: G.E.H.

STAMP

No	Revis	sion	Date
Si	te:	RALEIGH	
Βι	uilding:	MANN HA	LL
Zo	ne / Floor:	FOURTH	
Di	scipline:		
Pr	oject:		
Sc	ale:	1/16 "=1'-0	"

TITLE: ASBESTOS ABATEMENT PLAN FOURTH FLOOR

Rev:

Drawing Number: **AB-4**