

COLUMBUS CONSOLIDATED GOVERNMENT
Georgia's First Consolidated Government



FINANCE DEPARTMENT
PURCHASING DIVISION

100 TENTH STREET, COLUMBUS, GEORGIA 31901
P. O. Box 1340, COLUMBUS, GEORGIA 31902-1340
706-225-4087, Fax 706-225-3033
www.columbusga.org

Date: July 21, 2021

<p>REQUEST FOR PROPOSALS:</p> <p>RFP No. 22-0001</p>	<p>Qualified firms are requested to submit proposals, subject to conditions and instructions as specified, for the furnishing of:</p> <p align="center">ASBESTOS ABATEMENT FOR FORMER GEORGIA STATE FARMERS MARKET</p>
<p>GENERAL SCOPE</p>	<p>Columbus Consolidated Government (the City) is requesting proposals from qualified asbestos abatement contractors to provide all labor, materials, equipment, permits, and incidentals necessary to complete all tasks associated with remediating asbestos-containing building materials identified in structures located at the former Georgia State Farmers Market.</p>
<p><u>MANDATORY SITE VISIT</u></p>	<p>A <u>Mandatory Site Visit</u> is scheduled for <u>1:00 PM</u> on <u>Wednesday, August 4, 2021</u>. Contractors shall convene at the <u>Georgia State Farmers Market entrance that is closest to the corner of 10th Ave and 4th St in Columbus, GA;</u> the Georgia State Farmers Market is located at located at 318 10th Ave in Columbus, GA. <u>Attendees will be required to wear face masks and observe social distancing.</u></p> <p>Refer to page 13 for additional information.</p>
<p>DUE DATE</p>	<p align="center">AUGUST 20, 2021 - 5:00 PM (EASTERN)</p>
<p>SUBMISSION REQUIREMENTS</p>	<p>See Appendices A through D for information and instructions on how to register and submit a proposal through DemandStar.</p>
<p>ADDENDA</p>	<p>The Purchasing Division will post addenda (if any) for this project at https://www.columbusga.gov/finance/purchasing/docs/opportunities/Bid_Opportunities.htm. It is the vendors' responsibility to periodically visit the web page for addenda, before the due date and prior to submitting a response.</p>
<p>NO SUBMITTAL</p>	<p>If you are not interested in this solicitation, complete and return page 3.</p>

Andrea J. McCorvey,
Purchasing Division Manager



IMPORTANT INFORMATION

E-Notification

The City uses the Georgia Procurement Registry e-notification system. You must register with the Team Georgia Marketplace to receive future procurement notifications at <http://doas.ga.gov/state-purchasing/suppliers/getting-started-as-a-supplier>.

If you have any questions or encounter any problems while registering, please contact the Team Georgia Marketplace Procurement Helpdesk:

Telephone: 404-657-6000

Fax: 404-657-8444

Email: procurementhelp@doas.ga.gov

STATEMENT OF "NO PROPOSAL SUBMISSION"

Notify the Purchasing Division if you do not intend to submit a Proposal:

Email: BidOpportunities@ColumbusGa.org

Fax: 706-225-3033

Attn: Della Lewis, CPPB, GCPA

Columbus Consolidated Government

Purchasing Division

P. O. Box 1340

We, the undersigned decline to submit a proposal for **RFP No. 22-0001** for **Asbestos Abatement for Former Georgia State Farmers Market** for the following reason(s):

- Specifications are too "tight", i.e., geared towards one brand or manufacturer (explain below)
- There is insufficient time to respond.
- We do not offer this product and/or service.
- We are unable to meet specifications.
- We are unable to meet bond requirements.
- Specifications are unclear (explain below).
- We are unable to meet insurance requirements.
- Other (specify below)

Comments:

COMPANY NAME: _____

REPRESENTATIVE: _____

DATE: _____

TELEPHONE: _____

EMAIL: _____

PROPOSALS WILL BE EVALUATED IN ACCORDANCE WITH THE PROCEDURES AS OUTLINED BELOW IN SECTION 3-110 OF THE PROCUREMENT ORDINANCE. ALL PROPOSALS WILL BE KEPT CONFIDENTIAL UNTIL AFTER AWARD.

3-110. Competitive Sealed Proposals (Negotiations)

(1) Conditions for Use

When the Purchasing Manager determines that the use of competitive sealed bidding for any procurement is either not practicable or not advantageous to the City, a contract may be entered into using the competitive sealed proposals (negotiation) method. In addition, the competitive sealed proposal process shall be used for the procurement of professional services, specialized equipment or supplies.

The competitive sealed proposal process may be used for procurements with an estimated total cost less than \$25,000.00, if deemed to be in the best interest of the City. If the total cost can be determined, the authority to approve such solicitations will be as prescribed by [article 3-104](#), Purchasing Limits. If, due to the required services, a total cost cannot be determined then the award recommendation will be approved by Council.

A. Request for Proposals

Proposals shall be solicited through Request for Proposals. The Purchasing Division shall establish the specifications with the using agency and set the date and time to receive proposals. The request for proposal shall include a clear and accurate description of the technical requirements for the service or item to be procured.

B. Public Notice

The public will be given adequate notice of the request for proposals, provided that, adequate notice shall mean at least fifteen (15) business days before the due date, which is stated in the request. *The City reserves the right to seek request for proposals in a shorter period, if necessary, as determined by the Purchasing Manager.*

Notice shall be published in a reasonable time before due date, contain a description of the procurement in general terms, as well as, the place and due date for proposals, and appear in a newspaper(s) of general circulation, specifically the City's legal organ. In addition to publication in newspapers, notice shall also be made by electronic means, including posting on the internet and on the City's government access television channel.

Public works construction projects shall be advertised in accordance with Georgia State Law.

The City reserves the right to mail or e-mail invitations directly to vendors under the following circumstances:

- Solicitations for specialized equipment/supplies.
- Solicitations for specialized services.
- Re-bid of solicitations where normal advertising procedures netted no responses.
- Whenever deemed necessary by the purchasing manager.

C. Receipt of Proposals

Proposals must be received by the deadline date established. No public opening will be held. No proposals shall be handled to permit disclosure of the identity of any offeror or the contents of any proposal to competing offerors during the process of discussion. A register of proposals shall be prepared as part of the contract file, and shall contain the name of each offeror, the number of modifications received (if any), and a description sufficient to identify the item offered. The register of proposals shall be open for public inspection only after contract award.

D. Evaluation Factors

The request for proposals shall identify the relative importance of cost (when applicable) and other evaluation criteria.

E. Evaluation Process

An odd number of voting members of a Selection or Evaluation Committee shall evaluate all proposals received based upon the criteria stated in the request for proposals. Each voting committee member shall grade each submitted proposal based upon the evaluation criteria.

F. Discussion with Responsible Offerors and Revisions to Proposals

As provided in the Request for Proposals, discussions (negotiations) may be conducted with responsible offerors who submit proposals determined to be reasonably susceptible of being selected for award, to assure full understanding of and conformance to the solicitation requirements. All qualified, responsible offerors shall be given fair and equal treatment with respect to any opportunity for discussion and revision of proposals, and such revisions may be permitted after submissions and prior to award for the purpose of obtaining best and final offers. In conducting discussions, there shall be no disclosure of the identity of competing offerors or any information derived from proposals submitted by competing offerors. If only one proposal response is received, then the award recommendation shall be to the single offeror, if the offeror meets all requirements.

G. Award

After negotiations, the award recommendation must be presented to Columbus City Council for final approval. Award will be made to the responsible offeror whose proposal is determined to be the most advantageous to the City, taking into consideration total cost (if determined) and all other evaluation factors set forth in the Request for Proposals.

After Council approval, a contract based on the negotiations (if negotiations were necessary) will be drawn and signed by all necessary parties. If Council does not approve the award, it may direct that further negotiations may take place with the recommended offeror, or that negotiations begin with the next most qualified offeror. Council may also exercise the option to reject all offers and instruct the Purchasing Manager to begin the procurement process again. The contract file shall contain the basis on which the award is made.

After contract award, the contract file, will be made public. Unsuccessful offerors will be afforded the opportunity to make an appointment with the Purchasing Division for a debriefing. After the award, the contract file and the unsuccessful proposals will become subject to disclosure under the Georgia Open Records Act.

DO YOU HAVE QUESTIONS, CONCERNS OR NEED CLARIFICATION ABOUT THIS SOLICITATION?

COMMUNICATION CONCERNING ANY SOLICITATION CURRENTLY ADVERTISED MUST TAKE PLACE IN WRITTEN FORM AND ADDRESSED TO THE PURCHASING DIVISION.

ALL QUESTIONS OR CLARIFICATIONS CONCERNING THIS SOLICITATION SHALL BE SUBMITTED IN WRITING. THE CITY WILL NOT ORALLY OR TELEPHONICALLY ADDRESS ANY QUESTION OR CLARIFICATION REGARDING BID/PROPOSAL SPECIFICATIONS. IF A VENDOR VISITS OR CALLS THE PURCHASING DIVISION WITH SUCH QUESTIONS, HE OR SHE WILL BE INSTRUCTED TO SUBMIT THE QUESTIONS IN WRITING.

ALL CONTACT CONCERNING THIS SOLICITATION SHALL BE MADE THROUGH THE PURCHASING DIVISION. BIDDERS SHALL NOT CONTACT CITY EMPLOYEES, DEPARTMENT HEADS, USING AGENCIES, EVALUATION COMMITTEE MEMBERS OR ELECTED OFFICIALS WITH QUESTIONS OR ANY OTHER CONCERNS ABOUT THE SOLICITATION. QUESTIONS, CLARIFICATIONS, OR CONCERNS SHALL BE SUBMITTED TO THE PURCHASING DIVISION IN WRITING. IF IT IS NECESSARY THAT A TECHNICAL QUESTION NEEDS ADDRESSING, THE PURCHASING DIVISION WILL FORWARD SUCH TO THE USING AGENCY, WHO WILL SUBMIT A WRITTEN RESPONSE.

THE PURCHASING DIVISION WILL FORWARD WRITTEN RESPONSES TO THE RESPECTIVE BIDDER OR IF IT BECOMES NECESSARY TO REVISE ANY PART OF THIS SOLICITATION, A WRITTEN ADDENDUM WILL BE ISSUED TO ALL BIDDERS.

THE CITY IS NOT BOUND BY ANY ORAL REPRESENTATIONS, CLARIFICATIONS, OR CHANGES MADE TO THE WRITTEN SPECIFICATIONS BY CITY EMPLOYEES, UNLESS SUCH CLARIFICATION OR CHANGE IS PROVIDED TO THE BIDDERS IN A WRITTEN ADDENDUM FROM THE PURCHASING MANAGER.

BIDDERS ARE INSTRUCTED TO USE THE ENCLOSED "QUESTION/CLARIFICATION FORM" TO FAX OR EMAIL QUESTION.

ANY REQUEST, AFTER A SOLICITATION HAS CLOSED AND PENDING AWARD MUST ALSO BE SUBMITTED IN WRITING TO THE PURCHASING DIVISION.

QUESTION/CLARIFICATION FORM

Date: _____

To: Della Lewis, Buyer Specialist
 Email BidOpportunities@ColumbusGA.org or
 Fax (706) 225-3033

Re: **Asbestos Abatement for the Former Georgia State Farmers Market – RFP No. 22-0001**

Questions and requests for clarification must be submitted at least five (5) business days *before* the due date:

From:

Company Name	Website
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Representative	Email Address
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Complete Address	City	State	Zip
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Telephone Number	Fax Number
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COLUMBUS CONSOLIDATED GOVERNMENT GENERAL PROVISIONS FOR REQUEST FOR PROPOSALS

Asbestos Abatement for the Former Georgia State Farmers Market
RFP No. 22-0001

Columbus Consolidated Government (the City) is requesting proposals from qualified asbestos abatement contractors to provide all labor, materials, equipment, permits, and incidentals necessary to complete all tasks associated with remediating asbestos-containing building materials identified in structures located at the former Georgia State Farmers Market.

A. PROPOSAL SUBMITTAL DATE:

PROPOSALS ARE DUE: AUGUST 20, 2021 NO LATER THAN 5:00 PM (Eastern). *Submit one electronic response via DemandStar.*

After award of Contract by Columbus Council, awarded vendor will be notified to provide two (2) identical hard copies of submitted proposal with original signatures.

The City shall not be held liable for any expenses incurred by the respondent in preparing and submitting the proposal and/or attendance at any interviews, final contract negotiations or applicable site visits. **The City reserves the right to award this project or to reject any and all proposals; whichever is in the best interest of the City.**

B. RECEIPT OF PROPOSALS:

Unless otherwise stated in the technical specifications of the RFP, the City will accept one, and only one, proposal per Offeror. In the event a team of firms is entering into a joint venture to respond to the RFP, one firm shall be named the prime contractor and the proposal shall be submitted in the name of the prime contractor. All correspondence concerning the RFP will be between the City and prime contractor.

C. SUBCONTRACTING:

Should the offeror intend to subcontract all or any part of the work specified, names and address of subcontractors must be provided in proposal response. The offeror shall be responsible for subcontractors' full compliance with the requirements of the RFP specifications. If awarded the contract, payments will only be made to the offerors submitting the proposal. The Columbus Consolidated Government will not be responsible for payments to subcontractors.

D. QUESTIONS ABOUT THE RFP:

Communication concerning any solicitation currently advertised must take place in writing and addressed to the Purchasing Division. See page titled "Do You Have Questions ..." within this proposal package. **Questions and Requests for Clarification will be received until five business days prior to the proposal due date.**

E. PUBLIC INFORMATION:

All information and materials submitted will become the property of the Columbus Consolidated Government, Columbus, Georgia; and shall be subject to the provisions of the Georgia public records law. If awarded the contract, the proposal submission, in its entirety, will be included as part of the contract documents and filed, as public record, with the Clerk of Council.

F. ADDENDA:

The proposer shall include acknowledgment of receipt of addenda (if any) in their sealed proposal. The proposer should include an initialed copy of each addendum in the proposal package. It is the proposer's responsibility to contact the City for copies of addenda if they receive the proposal document from any other source other than the City.

G. CONTRACT:

Each proposal is received with the understanding that an acceptance in writing by the City of the offer to furnish any or all of the services and materials described shall constitute a contract between the proposer and the City. This contract shall bind the proposers to furnish and deliver the services and materials quoted, at the prices stated and in accordance with the condition of said accepted proposal.

It is agreed that the successful respondent will not assign, transfer, convey or otherwise dispose of the contract or its right, title or interest in or to the same, or any part thereof, without previous consent of the City and any sureties.

H. NON-COLLUSION:

Proposer declares that the proposal is not made in connection with any other proposer submitting a proposal for the same commodity or commodities, and that the proposal is bona fide and is in all respects fair and without collusion or fraud.

I. INDEMNITY:

The Contractor covenants to save, defend, hold harmless, and indemnify the City, and all of its officers, departments, agencies, agents, and employees (collectively the "City") from and against any and all claims, losses, damages, injuries, fines, penalties, costs (including court costs and attorney's fees), charges, liability, or exposure, however caused, resulting from, arising out of, or in any way connected with the Contractor's intentional, negligent, or grossly negligent acts or omissions in performance or nonperformance of its work called for by the Contract Documents.

J. DISADVANTAGED BUSINESS ENTERPRISE CLAUSE:

Disadvantaged Business Enterprises (minority or women owned businesses) will be afforded full opportunity to submit proposals in response to this invitation and will not be discriminated against on the grounds of race, color, creed, sex, sexual orientation, gender identity or national origin in consideration for an award. It is the policy of the City that disadvantaged business enterprises and minority business enterprises have an opportunity to participate at all levels of contracting in the performance of City contracts to the extent practical and consistent with the efficient performance of the contract.

K. AFFIRMATIVE ACTION PROGRAM - NON-DISCRIMINATION CLAUSE:

The City has an Affirmative Action Program in connection with Equal Employment Opportunities. The successful vendor will comply with all Federal and State requirements concerning fair employment and employment of the handicapped, and concerning the treatment of all employees, and will not discriminate between or among them by reason of race, color, age, religion, sex, sexual orientation, gender identity, national origin or physical handicap.

L. SPECIFICATION DESCRIPTIONS:

The specifications detailed herein represent the quality of equipment, goods or services required by the City. Whenever in this invitation any particular process, service or equipment is indicated or specified by patent, proprietary or brand name of manufacturer/developer/inventor, such wording will be deemed to be used for the purpose of facilitating descriptions of the process, service or equipment desired by the City. It is not meant to eliminate offerors or restrict competition in any RFP process. Proposals that are equivalent

or surpass stated specifications will be considered. Determination of equivalency shall rest solely with the City.

M. TAXES:

The City is exempt from State Retail Tax and Federal Excise Tax. Tax Exemption No. GA Code Sec. 48-8-3. Federal ID No. 58-1097948.

N. DRUG-FREE WORKPLACE:

Per Ordinance No. 93-55, in compliance with Federal and State Drug Free Workplace Acts, the Council of Columbus, Georgia adopted a drug free Workplace Policy. Consequently, any vendor providing goods or services to Columbus Consolidated Government must comply with all applicable Federal and State Drug Free Workplace Acts.

O. FEDERAL, STATE, LOCAL LAWS:

All respondents will comply with all Federal, State and Local laws, ordinances, rules and regulations relative to conducting business in Columbus, Georgia and performing the prescribed service. Ignorance on the part of the respondent shall not, in any way, relieve the respondent from responsibility for compliance with said laws and regulations or any of the provisions of these documents.

P. PROVISIONS OF THE PROCUREMENT ORDINANCE:

The provisions of the Procurement Ordinance for the Consolidated Government of Columbus, Georgia as adopted and amended by Council shall apply to all invitations to respond to Requests for Proposals and is specifically incorporated herein by this reference. The Procurement Ordinance is codified on Section 2-3.03 of the Columbus Code and can be accessed through the City's website at https://library.municode.com/ga/columbus/codes/code_of_ordinances.

Q. INSURANCE:

All respondents shall maintain, and if requested, show proof of insurance applicable for services described in these specifications.

R. HOLD HARMLESS AGREEMENT:

The successful respondent hereby agrees to indemnify, hold free and harmless Columbus Consolidated Government (The City), its agents, servants, employees, officers, directors and elected officials or any other person(s) against any loss or expense including attorney fees, by reason of any liability imposed by law upon the City, except in cases of the City's sole negligence, sustained by any person(s) on account of bodily injury or property damage arising out of or in the consequence of this agreement.

S. TERMINATION OF CONTRACT:

- 1. Default:** If the contractor refuses or fails to perform any of the provisions of this contract with such diligence as will ensure its completion within the time specified in this contract, or any extension thereof, otherwise fails to timely satisfy the contract provisions, or commits any other substantial breach of this contract, the Purchasing Division Director may notify the contractor in writing of the delay or nonperformance and if not cured within **ten (10) days** or any longer time specified in writing by the Purchasing Division Director, such director may terminate the contractor's right to proceed with the contract or such part of the contract as to which there has been delay or a failure to properly perform.

In the event of termination in whole or in part the Purchasing Division Director may procure similar supplies or services, from other sources, in a manner and upon terms deemed appropriate by the Purchasing Division Director. The contractor will continue performance of the contract

to the extent it is not terminated and will be liable for excess costs incurred in procuring similar goods or services.

2. **Compensation:** Payment for completed supplies or services delivered and accepted by the City will be at the contract price. The City may withhold from amounts due the contractor such sums as the Purchasing Director deems to be necessary to protect the City against loss because of outstanding liens or claims of former lien holders and to reimburse the City for the excess costs incurred in procuring similar goods and services.
3. **Excuse for Nonperformance or Delayed Performance.** Except with respect to defaults of subcontractors, the contractor shall not be in default by reason of any failure in performance of this contract in accordance with its terms (including any failure by the contractor to make progress in the prosecution of the work hereunder which endangers such performance) if the contractor has notified the Purchasing Division Director within 15 days after the cause of the delay and the failure arises out of causes such as: acts of God; acts of public enemy; acts of the City and any other governmental entity in its sovereign or contractual capacity; fires; floods; epidemics; quarantine restrictions; strikes or other labor disputes; freight embargoes; or unusually severe weather, If the failure to perform is caused by the failure of a subcontractor to perform or to make progress, and if such failure arises out of causes similar to those set forth above, the contractor shall not be deemed to be in default, unless the supplies or services to be furnished by the subcontractor was reasonably obtainable from other sources in sufficient time to permit the contractor to meet the contract requirements.

Upon request of the contractor, the Purchasing Division Director shall ascertain the facts and extent of such failure, and, if such director determines that any failure to perform was occasioned by anyone or more of the excusable causes, and that, but for the excusable cause, the contractor's progress and performance would have met the terms of the contract, the delivery schedule shall be revised accordingly.

T. TIME FOR CONSIDERATION:

Due to the evaluation process, proposals must remain in effect for at least **180 days** after date of receipt.

U. CONTRACT AWARD:

Award of this contract will be made in the best interest of the City.

V. REQUEST FOR EVALUATION RESULTS:

Per the City's Procurement Ordinance, evaluation results cannot be divulged until after the award of the contract. After contract award, proponents desiring to review documents relevant to the RFP evaluation results shall submit a written request to the Purchasing Division.

W. GOVERNING LAW:

The parties agree that this Agreement shall be governed by the laws of Georgia, both as to interpretations and performance.

X. FINAL CONTRACT DOCUMENTS:

It is understood that the final contract shall include the following: **1)** The RFP; **2)** Addenda; **3)** Awarded Vendors(s) response; **4)** Awarded Vendor(s) Clarifications; **5)** Negotiated Components; and **6)** Awarded Vendor(s) Business Requirements.

Y. PAYMENT DEDUCTIONS:

The City reserves the right to deduct, from payments to awarded vendor(s), any amount owed to the City for various fees, to include, but not limited to: False Alarm fees, Ambulance fees, Occupation License Fees, Landfill fees, etc.

Z. PAYMENT TERMS:

The City's standard payment term is usually net 30 days, after successful receipt of goods or services. Payment may take longer if invoice is not properly documented or not easily identifiable, goods/services are not acceptable, or invoice is in dispute.

AA. RIGHT TO PROTEST:

- A. Right of Protest. Any actual or prospective bidder offeror, or contractor who is aggrieved in connection with a solicitation or award of a contract may protest to the Purchasing Manager initially. All protests shall be filed in the manner prescribed herein. Protests that do not comply with the following rules shall be deemed invalid and of no effect.
- B. The protest must be in writing, executed by a company officer that is authorized to execute agreements on behalf of the bidder or offeror or provided by an authorized legal representative of the protestor.
- C. A protest with respect to an invitation for Bids or Request for Proposals shall be submitted in writing no less than five (5) business days prior to the opening of bids or the closing date of proposals or qualification statements.
- D. Stay of Procurement During Protests. If there is a timely protest submitted as described above, the Purchasing Manager shall not proceed further with the solicitation or award of the contract until all administrative remedies have been exhausted or until the City Council, Mayor, or City Manager makes a determination on the record that the award of the contract without delay is necessary to protect substantial interests of the City.

NOTICE TO VENDORS

Sec. 2-3.05. - Submitting bids to Consolidated Government, etc.—By mayor or councilmembers.

Neither the mayor nor any member of the Columbus Council shall submit any bid to the consolidated government, nor shall the mayor or any member of the Columbus Council own or have a substantial pecuniary interest in any business that submits a bid to the consolidated government. (Ord. No. 92-60, 6-23-92)

Sec. 2-3.06. - Same—By members of boards, authorities, commissions.

No member of any board or authority or commission or other independent or subordinate entity of the consolidated government shall submit any bid to the consolidated government or have a substantial pecuniary interest in any business that submits a bid to the consolidated government if such bid pertains to the board or authority or commission on which such person holds such membership. (Ord. No. 92-61, 6-23-92)

ATTENDANCE CONFIRMATION FORM

Date: _____

To: Della Lewis, Buyer Specialist
Email: BidOpportunities@ColumbusGA.org
Fax Number: (706) 225-3033

Re: RFP No. 22-0001 – Asbestos Abatement for Former Georgia State Farmers Market

A **Mandatory Site Visit** is scheduled for **1:00 PM** on **Wednesday, August 4, 2021**. Contractors shall convene at the **Georgia State Farmers Market entrance that is closest to the corner of 10th Ave and 4th St in Columbus, GA**; the Georgia State Farmers Market is located at located at 318 10th Ave in Columbus, GA. **Attendees will be required to wear face masks and observe social distancing.**

The purpose of the site visit is to allow vendors to view the work area. Vendors should notify Della Lewis, via the email or fax number listed above, to confirm attendance at the mandatory site visit. **If you have questions or requests for clarification resulting from the Site Visit, submit said inquires in the manner prescribed on pages 6 and 7 of these specifications.**

Vendors shall sign an attendance sheet at the Mandatory Site Visit. Only vendors who have signed the attendance(s) sheet will receive future addenda and will be allowed to submit a proposal for this project. Proposals received from vendors who do not attend the Mandatory Site Visit will be deemed non-responsive and will not be considered for award.

The Purchasing Division will deem non-responsive any and all proposals received from contractors who were not represented at the site visit.

Complete and return this form to confirm attendance:

_____		_____	
Company Name		# of Attendees	
_____		_____	
Contact Person		Email Address	
_____		_____	
Mailing Address	City	State	Zip
_____		_____	
Telephone Number		Fax Number	

GENERAL SPECIFICATIONS

Asbestos Abatement for Former Georgia State Farmers Market RFP No. 22-0000

I. SCOPE

Columbus Consolidated Government (the City) is requesting proposals from qualified asbestos abatement contractors to provide all labor, materials, equipment, permits, and incidentals necessary to complete all tasks associated with remediating asbestos-containing building materials identified in structures located at the former Georgia State Farmers Market.

This project is funded in part by a US EPA Brownfields Cleanup Grant intended to remediate asbestos containing building materials identified in the site structures during a Hazardous Materials survey performed by Terracon Consultants, Inc. Results of this survey were presented in the Terracon Hazardous Materials Report dated June 14, 2018. A detailed description of the scope of services required for this project is included in the attached Analysis of Brownfield Cleanup Alternatives (ABCA). **The work is to be performed in accordance with the ABCA, which is found on pages 21 - 22 of this RFP. Refer to Attachment A for the Hazardous Material Reports; a map of the site is included in Attachment A.**

II. AWARD

Columbus Consolidated Government intends to award this project to a single entity that is, in the judgment of Columbus Consolidated Government, the best and most qualified for the project. Columbus Consolidated Government will have the final say and will be the sole judge in the evaluation. Contract discussion will begin as soon as Columbus Council approves the award recommendation.

Attention is directed to the requirement that the work be substantially completed within the contract time. The selected contractor must provide the GA EPD with written notification of planned abatement and removal activities prior to the commencement of those activities. Following the 10-business day notification period, the selected contractor will have 25 days to complete the scope of services outlined in this document and associated support documents.

III. PERFORMANCE BOND

The successful Contractor shall, without any additional cost to Columbus Consolidated Government, furnish Performance and Payment Bonds, both in the amount of one hundred percent (100%) of the total contract amount, within ten (10) calendar days after notification of award. Such bond shall be issued from a reliable surety company, licensed to do business in the state of Georgia and acceptable to Columbus Consolidated Government.

IV. HEALTH AND SAFETY PLAN

The Columbus Consolidated Government considers health and safety to be of the utmost importance. Prior to project commencement, the selected contractor will be required to prepare and follow an OSHA-compliant Health and Safety Plan (HASP).

V. DAVIS BACON ACT

As work is being completed using US EPA Brownfields funding, the selected contractor and sub-contractors must follow Davis Bacon Act (DBA) requirements including providing weekly certified

payrolls, following wage payment requirements (aka wage decisions) and participating in site interviews in accordance with the June 2006 US Department of Housing and Urban Development document entitled: A Contractor’s Guide to Prevailing Wage Requirements for Federally-Assisted Construction Projects”. The selected contractor will not be paid by the Columbus Consolidated Government until required DBA documentation is provided to the City.

VI. INDEMNITY CLAUSE

The Contractor covenants to save, defend, hold harmless, and indemnify the City, and all of its officers, departments, agencies, agents, and employees (collectively the “City”) from and against any and all claims, losses, damages, injuries, fines, penalties, costs (including court costs and attorney’s fees), charges, liability, or exposure, however caused, resulting from, arising out of, or in any way connected with the Contractor’s intentional, negligent, or grossly negligent acts or omissions in performance or nonperformance of its work called for by the Contract Documents.

VII. ERRORS AND OMISSIONS

If, due to an error or omission in the scope of work, a particular requirement is not specifically included but is necessary to provide the City with required services, then said requirement is considered to be included in the scope of work just as if it had been listed in detail herein.

VIII. INSURANCE

The vendors shall be required, at their own expense, to furnish to the City of Columbus Purchasing Division, evidence showing the insurance coverage to be in force throughout the term of the contract. Insurance requirements are listed on the attached **Insurance Checklist (Form 5)**. **The limits shown are minimum limits. Vendor shall indicate the actual limit they will provide for each insurance requirement. The bidder shall complete the Insurance Checklist and include with bid response. Certificate of Insurance is acceptable.** The Insurance Checklist will indicate to the City, the bidder’s ability and agreement to provide the required insurance, in the event of contract award.

The successful candidate shall provide the required Certificates of Insurance within **10 business days** after award notification. The Certificates of Insurance will name Columbus Consolidated Government as an additional insured, **as well as list the applicable project or annual contract name, and/or Solicitation name and number.** The Certificate of Insurance will be included with the contract documents prior to signing.

IX. E-VERIFY AFFIDAVIT

Pursuant to O.C.G.A. § 13-10-91, a public employer shall not enter into a contract for the performance of services unless the contractor registers and participates in the federal work authorization program. If a supplier is providing services under a contract with a total compensation amount of \$2,500 or greater, (even if such services will be performed outside of the State of Georgia), DOAS requires a notarized affidavit from the supplier attesting to the following:

- (A) The affiant has registered with, is authorized to use, and uses the federal work authorization program;
- (B) The user identification number and date of authorization for the affiant;
- (C) The affiant will continue to use the federal work authorization program throughout the contract period; and
- (D) The affiant will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the same information required by subparagraphs (A), (B), and (C) of this paragraph.

Additional information regarding the State's E-Verify requirements can be found at: <http://www.audits.ga.gov/NALGAD/IllegalImmigrationReformandEnforcementAct.html>. **A completed, notarized E-Verify Affidavit must be included with sealed proposal; failure to do so will render the firm's or individual's proposal non-responsive and ineligible for award consideration.**

X. PROPOSAL PREPARATION AND SUBMISSION

Responses must be submitted via DemandStar. See Appendices A through D for information and instructions on how to register and submit proposals through DemandStar.

Firms should submit proposals that address each of the sections specified below. **With the exception of the E-Verify Affidavit (Form 1), the form titled "Communication Concerning This Solicitation" (Form 2), and the proposed cost, fees, etc.,** the City reserves the right to request any omitted information. Firms shall be notified, in writing, and shall have two (2) days, after notification, to submit the omitted information. If the omitted information is not received within two (2) days, the firm shall be deemed non-responsive, and the proposal will not receive further consideration.

Section 1: Transmittal Letter

Transmittal letter shall introduce the applicant/business, describe the ownership, include complete address, phone, and fax numbers (if applicable), and **include the name and email address(es) of contact person(s) during this proposal process.** Include a statement to the effect that the proposal is binding for at least 180 days from the proposal date. **An authorized agent of the business must sign the transmittal letter.**

Section 2: E-Verify Affidavit (Form 1)

A properly completed, notarized E-Verify Affidavit must be included with sealed proposal; failure to do so will render the firm's proposal non-responsive and ineligible for further consideration. Additional information regarding the State's E-Verify requirements can be found at: <http://www.audits.ga.gov/NALGAD/IllegalImmigrationReformandEnforcementAct.html>

Section 3: Addenda Acknowledgement

Acknowledge receipt for all addenda (if any). Addenda will be posted at: https://www.columbusga.gov/finance/purchasing/docs/opportunities/Bid_Opportunities.htm. It is the vendors' responsibility to periodically visit the web page for addenda before the due date and before submitting a proposal.

Section 4: Communication Concerning This Solicitation

Complete the form titled *Communication Concerning This Solicitation (Form 2)*

Section 5: Exceptions to RFP

A. List **ANY AND ALL** exceptions to the RFP specifications in this section of proposal submission. Exceptions listed in other areas of the vendor's submission will not be considered. All exceptions will be vetted during the RFP process, and if found unacceptable, the vendor's proposal will be rejected and no longer considered for award. Exceptions shall be considered by the Evaluation Committee. The vendor's proposal may not receive further consideration if exceptions are not acceptable and/or cannot be clarified to the Committee's satisfaction. Vendors shall be notified in writing if exceptions are not acceptable. **PLEASE NOTE: EXCEPTIONS TO THE RFP GENERAL PROVISIONS WILL NOT BE CONSIDERED, AND IF SUBMITTED WILL AUTOMATICALLY RENDER THE RESPONSE NON-**

RESPONSIVE.

B. VENDOR AGREEMENT/CONTRACT FORM: Exceptions also include the terms of any contract or other agreements which the vendor or any subcontractors will require to be executed by the City.

C. If there are no exceptions, vendor must include a statement for this Section stating the following: No Exceptions.

Section 6: Surety

Provide surety, in an amount equal to five percent (5%) of your total cost proposal. The 5% surety shall be in the form of a bid bond issued by a surety company, a Cashier's Check, a Certified Check or a Money Order, in favor of Columbus Consolidated Government. **No personal or company checks accepted.**

If for any reason whatsoever the successful Contractor withdraws from the competition after opening of proposals, or if Contractor refuses to execute and deliver the Contract and Bonds required within 10 days after receipt of conformed Contract Document for executing, the Owner may proceed to enforce the provisions of the surety.

Section 7: Performance/Payment Bonds Capability

Provide satisfactory proof that the Contractor will be able to furnish 100% performance and payment bonds at the execution of the contract (e. g., letter from a surety company).

Section 8. Qualifications and Experience

A. Qualifications/Experience

- i. The contractor performing the asbestos abatement must have a current Georgia Asbestos Abatement Contractor's License at the time of proposal submittal. Include a copy of the license with proposal.
- ii. Describe your history in providing asbestos abatement services.
- iii. Describe the general nature of work performed by Contractor.
- iv. Elaborate in detail your unique capabilities that will bring value to the project.
- v. Have you ever failed to complete a project and/or defaulted on a contract? If so, specify when, where and with whom. If your firm has found it necessary to enter into litigation with an owner or contractor, please indicate the case or cases, the reason for, and the results of the litigation.

B. Regulatory Experience

- i. Describe contractors experience working with GA EPD on asbestos abatement projects and discuss any NOVs issued to contractor or anticipated subcontractors in the last three (3) years.

C. Health and Safety

- i. Describe the health and safety record (i.e., job-related accidents, injuries, etc.) of the contractor and any anticipated subcontractors, the last five (5) years.
- ii. Provide a copy of the Health and Safety policies for the contractor and any subcontractors.

D. Conflicts of Interest

- i. Please disclose any potential conflicts of interest that may exist.

Section 9: Key Personnel, Equipment and Subcontracted Services

A. Include resumes of key project staff.

- B. Include a list of anticipated equipment required to complete this project. Indicate what equipment is company owned and what equipment would require rental.
- C. If subcontractors are anticipated to be utilized, please indicate the subcontractor's name and services that they will be providing. The City reserves the right to approve all proposed subcontractors for this project.

Section 10: Client Work History

Use **Form 3** to list the *last* three (3) entities for which similar work has been performed; provide all requested information.

Section 11: Proposed Project Timeframe

- A. Indicate contractor's availability to initiate site activities after receiving the notice to proceed.
- B. Include a proposed timeframe from issuance of notice to proceed for completion of project milestones (ie, permitting, site security, mobilization, asbestos abatement, demobilization, etc.). *Do not* use actual dates in the timeline; use days, weeks, and months.

Section 12: Other Factors

- A. The Columbus Consolidated Government encourages participation by small, minority, women- owned, disadvantaged, and Section 3 businesses. Additional consideration will be given to contractors who are classified as or who utilize sub-contractors who are classified as small, minority, women-owned, disadvantaged, and HUD Section 3 businesses.
 - i. If your company falls within one of the business categories listed above, or if you propose to utilize the services of the businesses listed above, provide copies of certification issued by a local, county, state, or federal agency.
 - ii. Identify the dollar amount and type of work that will be performed by each business.
- B. **Described your greener cleanup principles.** The Columbus Consolidated Government will ensure a greener cleanup. Assessing and cleaning up contaminated land protects human health and the environment and enables communities to pursue future beneficial reuse of these properties. Cleaning up sites can be viewed as "green" from the perspective of the cleanup improving environmental and public health conditions. However, cleanup activities use energy, water, and other material resources to achieve cleanup objectives. Additional consideration will be given to contractors who incorporate greener cleanup principles into their work practices. EPA has developed tools and case studies to help alleviate the environmental footprint of cleanup actions. More information can be found at the following web link: <https://www.epa.gov/greenercleanups>.

Section 13: Cost Proposal (*subject to negotiations*)

The budget for this project is limited to the funds provided through the US EPA Brownfields Cleanup Grant. The selected contractor will be required to complete all project requirements utilizing only the available funds. **Therefore, this project is to be completed on a fixed cost basis.**

Provide an itemized cost proposal, including per building costs, all labor, materials, equipment, permits, and incidentals necessary to complete all tasks associated with remediating asbestos-containing building materials identified in structures located at the former Georgia State Farmers Market.

Section 14: Contract Signature Page

Complete **Form 4**. City officials will sign the copies after Columbus Council approves the contract award with the successful firm (*see note below*). Per the General Provisions, Page 12, Item X, the final contract shall include the following: 1) The RFP; 2) Addenda; 3) Awarded Vendor(s) response; 4) Awarded Vendor(s) Clarifications; 5) Negotiated Components; and 6) Awarded Vendor(s) Business Requirements.

Please note: After award of contract by Columbus Council, awarded vendor will be notified to provide two (2) identical hard copies of submitted proposal with original signatures.

Section 15: Proof of Insurance

Provide Insurance Checklist (**Form 5**) or Certificate of Insurance.

Section 16: Form W-9, Request for Taxpayer Identification Number and Certification

Complete and return **Page 1** of the Form W-9 at <https://www.irs.gov/pub/irs-pdf/fw9.pdf>

Section 17: Business License (Occupation License)

Provide a current copy of the Business License (Occupation License) that is required to conduct business at your location.

If awarded the contract, the successful vendor must obtain a business license from the City of Columbus. However, if the business is located in Georgia and has proof of being properly licensed by a municipality in Georgia, and paid applicable occupation taxes in that city, the contractor will not be required to pay occupation taxes in Columbus, Georgia.

If you have questions regarding this requirement, please contact Yvonne Ivey, Revenue Division Manager, at telephone 706-225-3091.

XI. RFP EVALUATION

Each submittal will be evaluated to determine the ability of each offeror to provide the required services. The following weighted criteria will be used to evaluate proposals:

Criteria	Weight
A. Qualifications and Experience	30%
B. Proposed Project Timeframe	20%
C. Key Personnel, Equipment, and Subcontracted Services	25%
D. Client Work History	15%
E. Other Factors	5%
F. Cost Proposal (<i>subject to negotiations</i>)	5%
Total	100%

Each of the above criteria (A - F) will be given a rating, of 1 through 100, by each member of the Evaluation Committee. The ratings are as follows:

RATING	
1-20	Poor
21-40	Fair
41-60	Good
61-80	Excellent
81-100	Superior

After the review and rating of proposal (s) by the evaluation committee, individual scores will be averaged and ranked. Offerors will be ranked in descending order of numerical predominance.

ANALYSIS OF BROWNFIELD CLEANUP ALTERNATIVES

Asbestos Abatement for Former Georgia State Farmers Market

RFP No. 22-0000

I. THE ASBESTOS CLEANUP WORK SCOPE

Based on the results of laboratory analysis, samples of the following materials were identified as containing asbestos:

Building 1

- 12x12 brown vinyl floor tile and black mastic in the office area
- Black mastic associated with non-asbestos-containing 12x12 white vinyl floor tile in the office area, back room and mechanical room
- Concrete-based insulation panels in the walk-in cold storage units
- Exterior door caulk
- Ceramic wall tile mortar in the bathrooms (<1% asbestos content)

Building 2

- Concrete-based insulation panels in the walk-in cold storage units
- Ceramic wall tile mortar in the bathrooms

Building 3

- Ceramic wall tile mortar in the vendor area bathrooms
- Concrete-based insulation panels in the walk-in cold storage units
- 2x2 suspended ceiling tiles in office space, west vendor area

Building 4

- Black mastic associated with non-asbestos-containing 12x12 blue-speckled vinyl floor tile (under carpeting) in the office area
- 9x9 floor tile and black mastic in the office area
- Remnant black floor tile mastic associated with non-asbestos-containing carpet glue in the office area (<1% asbestos content)
- Concrete-based insulation panels in the walk-in cold storage units
- Mudded pipe insulation on pipe joint and elbows in the office area, 2nd floor mechanical room
- Tar coating metal foil HVAC insulation in the office area, 2nd floor mechanical room
- Stair treads in the office area
- Ceramic wall tile mortar in the bathrooms in the office area

Building 5

- Thermal pipe insulation, storage room associated with office

Building 6

- Ceramic wall tile mortar in the bathrooms in the bathrooms

II. THE ASBESTOS CLEANUP RECOMMENDATION

The asbestos-containing vinyl floor tiles and floor tile mastics in Building 1 and Building 4 are considered NESHAP Category I non-friable ACM in good condition. Terracon recommends these materials be removed by a State of Georgia licensed asbestos abatement contractor prior to disturbance.

The asbestos-containing exterior door caulk associated with Building 1, the insulation panels in cold storage units for Buildings 1-4, ceramic wall tile mortar in Buildings 2-4 and Building 6 bathrooms, the tar-coating on HVAC foil insulation in Building 4, and the stair tread in the Building 4 office area are considered NESHAP Category II non-friable ACM, in good condition. These materials must be removed by a State of Georgia licensed asbestos abatement contractor prior to disturbance.

The asbestos-containing 2x2 ceiling tiles in the Building 3 office area, the mudded pipe insulation in the Building 5 office area mechanical room, and the thermal pipe insulation in the Building 5 storage room are considered RACM and must be removed by a State of Georgia licensed asbestos abatement contractor prior to disturbance.

Samples of bathroom ceramic wall tile mortar in Building 1 and carpet glue in Building 4 were determined by the laboratory to contain >1% asbestos content and, therefore, not regulated under NESHAPS. For the purposes of this hazardous materials assessment report, these materials are considered to be ACM until additional sampling and/or analysis (such as point count analysis) confirms otherwise.

A summary of the classification and condition of the identified ACM is presented in Appendix F. The laboratory analytical reports and the chain of custody forms are included in Appendix G. Photographs of the structures and identified ACM are included in Appendix H.

Please note that limited asbestos sampling is not intended to represent a comprehensive survey as required by the EPA's NESHAP (40 CFR Part 61, Subpart M) prior to renovation or demolition activities. Suspect materials, other than those identified as part of the limited asbestos sampling may exist within the site structures. Should future site use include demolition or extensive renovation of site structures, additional asbestos sampling will be necessary. The scope of services of the limited asbestos sampling did not include building roofs. Please note that suspect ACM may be present in or associated with roofing systems for the site structures.

E-VERIFY AFFIDAVIT

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of **Columbus Consolidated Government** has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Company ID Number (*numerical, 4-7 digits*)

Date of Authorization

****See <https://e-verify.uscis.gov/emp/vislogin.aspx?JS=YES> to access your E-Verify Company Identification Number.**

Name of Contractor

Asbestos Abatement for Former Georgia State Farmers Market – RFP No. 22-0001

Name of Project

Columbus Consolidated Government

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, __, 20__ in _____ (city), _____ (state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

Subscribed and sworn before me on this the ___ day of _____, 20__.

NOTARY PUBLIC

My Commission Expires:

A properly completed, notarized E-Verify Affidavit must be included with sealed proposal; failure to do so will render the firm’s proposal non-responsive and ineligible for further consideration.

COMMUNICATION CONCERNING THIS SOLICITATION

THIS PAGE MUST BE SIGNED AND RETURNED WITH THE VENDOR'S BID/PROPOSAL. FAILURE TO INCLUDE THIS FORM WILL AUTOMATICALLY RENDER VENDOR'S RESPONSE NON-RESPONSIVE.

.....
ALL QUESTIONS OR CLARIFICATIONS CONCERNING THIS SOLICITATION SHALL BE SUBMITTED IN WRITING. THE CITY WILL NOT ORALLY OR TELEPHONICALLY ADDRESS ANY QUESTION OR CLARIFICATION REGARDING BID/PROPOSAL SPECIFICATIONS. IF A VENDOR VISITS OR CALLS THE PURCHASING DIVISION WITH SUCH QUESTIONS, HE OR SHE WILL BE INSTRUCTED TO SUBMIT THE QUESTIONS IN WRITING.

ALL CONTACT CONCERNING THIS SOLICITATION SHALL BE MADE THROUGH THE PURCHASING DIVISION. BIDDERS SHALL NOT CONTACT CITY EMPLOYEES, DEPARTMENT HEADS, USING AGENCIES, EVALUATION COMMITTEE MEMBERS, INCLUDING NON-CCG EMPLOYEES, CONTRACTED PERSONNEL ASSOCIATED WITH THIS PARTICULAR PROJECT (I.E. ARCHITECTS, ENGINEERS, CONSULTANTS), OR ELECTED OFFICIALS WITH QUESTIONS OR ANY OTHER CONCERNS ABOUT THE SOLICITATION. QUESTIONS, CLARIFICATIONS, OR CONCERNS SHALL BE SUBMITTED TO THE PURCHASING DIVISION IN WRITING. IF IT IS NECESSARY THAT A TECHNICAL QUESTION NEEDS ADDRESSING, THE PURCHASING DIVISION WILL FORWARD SUCH TO THE USING AGENCY, WHO WILL SUBMIT A WRITTEN RESPONSE.

THE PURCHASING DIVISION WILL FORWARD WRITTEN RESPONSES TO THE RESPECTIVE BIDDER. IF IT BECOMES NECESSARY TO REVISE ANY PART OF THIS SOLICITATION, A WRITTEN ADDENDUM WILL BE ISSUED TO ALL BIDDERS.

THE CITY IS NOT BOUND BY ANY ORAL REPRESENTATIONS, CLARIFICATIONS, OR CHANGES MADE TO THE WRITTEN SPECIFICATIONS BY CITY EMPLOYEES, UNLESS SUCH CLARIFICATION OR CHANGE IS PROVIDED TO THE BIDDERS IN A WRITTEN ADDENDUM FROM THE PURCHASING MANAGER.

BIDDERS ARE INSTRUCTED TO USE THE ENCLOSED "QUESTION/CLARIFICATION FORM" TO FAX OR EMAIL QUESTION. **QUESTIONS AND REQUESTS FOR CLARIFICATION MUST BE SUBMITTED AT LEAST FIVE (5) BUSINESS DAYS BEFORE THE DUE DATE.**

ANY REQUEST/CONCERN/PROTEST, AFTER A SOLICITATION HAS CLOSED AND PENDING AWARD, MUST ALSO BE SUBMITTED IN WRITING TO THE PURCHASING DIVISION.

I agree to forward all communication about this solicitation, in writing, to the Purchasing Division. I understand that communication with other persons, other than the Purchasing Division, will render my Bid/Proposal response non-responsive and I will no longer be considered in the solicitation process.

Vendor Name: _____

Print Name of Authorized Agent: _____

Signature of Authorized Agent: _____

CLIENT WORK HISTORY
Asbestos Abatement for Former Georgia State Farmers Market
RFP No. 22-0001

Provide all requested information for the *last* three (3) entities for which similar work has been performed.

Client Name:	Contract Value:
Contact Name:	Contract Begin Date:
Address:	Contract End Date:
	Telephone:
	E-Mail:
Description of Services:	
Client Name:	Contract Value:
Contact Name:	Contract Begin Date:
Address:	Contract End Date:
	Telephone:
	E-Mail:
Description of Services:	
Client Name:	Contract Value:
Contact Name:	Contract Begin Date:
Address:	Contract End Date:
	Telephone:
	E-Mail:
Description of Services:	

Company Name **Authorized Signature** **Print Name of Signatory** **Date**

CONTRACT SIGNATURE PAGE
Asbestos Abatement for Former Georgia State Farmers Market
RFP No. 22-0001

THE UNDERSIGNED HEREBY DECLARES THAT HE HAS/THEY HAVE CAREFULLY EXAMINED THE SPECIFICATIONS HEREIN REFERRED TO AND WILL PROVIDE ALL EQUIPMENT, TERMS AND SERVICES TO THE CONSOLIDATED GOVERNMENT OF COLUMBUS, GEORGIA.

Witness as to the signing of the contract

Signature of Authorized Representative Date

Witness as to the signing of the contract

Print Name and Title of Signatory

Corporate seal (if applicable)

Company Name

Company Ordering Address

Company Payment Address

Contact: _____

Contact: _____

Email: _____

Email: _____

Telephone: _____

Telephone: _____

Fax: _____

Fax: _____

CONSOLIDATED GOVERNMENT OF COLUMBUS, GEORGIA

Accepted this ____ day of _____ 20____

APPROVED AS TO LEGAL FORM:

Isaiah Hugley, City Manager

Clifton C. Fay, City Attorney

ATTEST:

Sandra T. Davis, Clerk of Council

INSURANCE CHECKLIST

**Asbestos Abatement for Former Georgia State Farmers Market
RFP No. 22-0001**

**CERTIFICATE OF INSURANCE MUST SHOW ALL COVERAGE
AND ENDORSEMENTS INDICATED BY "X"**

CSL = Combined Single Limit; BI = Bodily Injury; PD=Property Damage

Required Coverage(s)		Limits (Figures denote minimums)	Bidders Limits/Response
X	1. Worker’s Compensation and Employer’s Liability	STATUTORY REQUIREMENTS	
	Comprehensive General Liability		
X	2. General Liability Premises/Operations	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
X	3. Independent Contractors and Sub - Contractors	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
	4. Products Liability	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
	5. Completed Operations	\$1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
X	6. Contractual Liability (Must be shown on Certificate)	\$ 1 Million CSL BI/PD each occurrence, \$1 Million annual aggregate	
	Automobile Liability		
X	7. *Owned/Hired/Non-Owned Vehicles/ Employer non ownership	\$1 Million BI/PD each Accident, Uninsured Motorist	
	Others		
X	8. Miscellaneous Errors and Omissions	\$1 Million per occurrence/claim	
	9. Umbrella/Excess Liability	\$1 Million Bodily Injury, Property Damage and Personal Injury	
	10. Personal and Advertising Injury Liability	\$1 Million each offense, \$1 Million annual aggregate	
X	11. Professional Liability	\$1 Million per occurrence/claim	
	12. Architects and Engineers	\$1 Million per occurrence/claim	
X	13. Asbestos Removal Liability	\$2 Million per occurrence/claim	
	14. Medical Malpractice	\$1 Million per occurrence/claim	
	15. Medical Professional Liability	\$1 Million per occurrence/claim	
	16. Dishonesty Bond		
	17. Builder’s Risk	Provide Coverage in the full amount of contract	

Required Coverage(s)		Limits (Figures denote minimums)	Bidders Limits/Response
	18. XCU (Explosive, Collapse, Underground) Coverage		
	19. USL&H (Long Shore Harbor Worker's Compensation Act)		
	20. Contractor Pollution Liability	\$2 Million per occurrence/claim	
	21. Environmental Impairment Liability	\$2 Million per occurrence/claim	
X	22. Carrier Rating shall be Best's Rating of A-VII or its equivalents		
X	23. Notice of Cancellation, non-renewal or material change in coverage shall be provided to City at least 30 days prior to action.		
X	24. The City shall be named Additional Insured on all policies		
X	25. Certificate of Insurance shall show Bid Number and Bid Title		
	26. Pollution:	\$2 Million per occurrence/claim	

*If offeror's employees will be using their privately owned vehicles while working on this contract and are privately insured, please state that fact in the **Bidders Limits/Response** column of the insurance checklist.

BIDDER'S STATEMENT:

If awarded the contract, I will comply with contract insurance requirements.

BIDDER NAME: _____

AUTHORIZED SIGNATURE: _____

DEMANDSTAR SUBMISSION INFORMATION

Responses must be submitted via DemandStar. See Appendices B, C & D for Submission Requirements Checklist, Registering for DemandStar and Responding to an Electronic Bid in DemandStar.

There is no cost to submit responses electronically through DemandStar; you will only incur a fee if you opt to receive e-notifications directly from DemandStar. You must select “Columbus Consolidated Government” as your free agency (see registration instructions). Solicitations may be accessed thru the DemandStar link that is posted at

https://www.columbusga.gov/finance/purchasing/docs/opportunities/Bid_Opportunities.htm.

Per Georgia HB489, the Purchasing Division will continue to post solicitations on the Georgia Procurement Registry. To receive future procurement notifications, you must register with the Team Georgia Marketplace at <http://doas.ga.gov/state-purchasing/suppliers/getting-started-as-a-supplier>.

Excluding responses to Requests for Proposals (RFP), a tabulation of responses will be available on DemandStar shortly after the solicitation closes. The Purchasing Division will also continue to post tabulations at

https://www.columbusga.gov/finance/purchasing/docs/tabulations/bid_tabulations.htm.

Failure to submit electronic responses, via DemandStar, will result in the rejection of your response. Submittals received via U.S. Postal Service, FedEx, UPS, etc., will be returned unopened at the expense of the sender. The Purchasing Division will not accept hand-delivered submittals and will immediately discard any submittal left in the reception area of the Finance Department.

The Purchasing Division sincerely appreciates your cooperation during these unprecedented times.

APPENDIX B

ELECTRONIC SUBMITTAL CHECKLIST

Asbestos Abatement for Former Georgia State Farmers Market
RFP No. 22-0001

Submit your electronic response as instructed below:

1. Vendors shall submit **only** the required documents listed using the “**Bidder Response ALL Documents**” function.
2. **Zip files with multiple files are not acceptable**; vendors shall submit one PDF file of their submittal.
3. Due to file size limitations, please **do not resend the City’s full specifications** as this information is already on file.
4. **In the event DemandStar requires a dollar value for your submittal, enter “0”.**

- 1. Transmittal Letter
- 2. E-Verify Affidavit (*Form 1*)
- 3. Addenda Acknowledgement (if any)
- 4. Communication Concerning this Solicitation (*Form 2*)
- 5. Exceptions to RFP
- 6. Surety
- 7. Performance/Payment Bond Capability
- 8. Qualifications and Experience (Items A – D)
- 9. Key Personnel, Equipment and Subcontracted Services (Items A – C)
- 10. Client Work History (*Form 3*)
- 11. Proposed Project Timeframe
- 12. Other Factors
- 13. Cost Proposal
- 14. Contract Signature Page (*Form 4*)
- 15. Proof of Insurance
- 16. **Page 1** of Form W-9 (<https://www.irs.gov/pub/irs-pdf/fw9.pdf>)
- 17. Business License (Occupation License) or Articles of Incorporation

Please note: After award of contract by Columbus City Council, awarded vendor will be notified to provide two (2) identical hard copies of submitted proposal with original signatures.

APPENDIX C

Registering for DemandStar



We are pleased to announce our membership in the DemandStar network. DemandStar is an online marketplace that connects our suppliers directly to the bids, quotes and RFPs that matter to them.

DemandStar is open and accessible to all businesses and provides instant access to our solicitations. By registering for your complimentary DemandStar account, you will receive:

- **Instant** access to bids, quotes and RFPs
- **Automatic** notifications, right to you inbox, of bids that match the commodity codes you select
- The ability to **quickly view** the contractual terms and scope of work
- All the **forms and documents** you need in one place
- Access to **more government bids** in neighboring cities, counties and states

It's EASY! Get started with these 3 easy steps!

1 REGISTER

Go to:

<https://www.demandstar.com/registration>

Create an Account with DemandStar

You are one step away from picking your free government agency

Email Address

Company Name

I accept the DemandStar [Terms of Use and Privacy Policy](#)

Next



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206.940.0305

2 CHOOSE YOUR FREE AGENCY

Type in the name of the government agency you'd like to add, for example "City of Metropolis" in the Search Box

3 CHECK OUT

Check out with your **FREE AGENCY** Registration by clicking "Skip for now" on the page where it gives you options to add additional counties and States

← Choose Your Free Agency

Receive full access to the government agency of your choice and receive advance notifications of new opportunities.

City of Metropolis ✕
Narrow down your search by selecting a state and county.

State County
Select State ▼ Select County ▼

- City of Metropolis – Board of Commissioners
- City of Metropolis Purchasing
- Metropolis Technical College

You have chosen **Metropolis Technical College** as your free agency. Add additional government agencies below for \$25 per County, Statewide and National subscriptions available.

My Subscriptions [0]

Nation (0)

States (0)

Counties (0)

		Your Current Rate
Total	(0 subscriptions)	\$0/year

Proceed to Checkout



Skip for Now

SIGN UP

Visit www.demandstar.com



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206.940.0305

Responding to an Electronic Bid

5 Step Instructions

Step 1

Many governments are moving toward requiring bid responses electronically. Here are the steps to respond to a bid Electronically.

- Click on the solicitation name

The screenshot shows a web application interface for managing bids. At the top, there is a navigation bar with tabs: 'Dashboard', 'Bids', 'Quotes', 'Coming Soon! Activities', 'Coming Soon! Messages', and 'Responses'. The 'Bids' tab is currently selected. Below the navigation bar, there is a large orange arrow pointing right with the word 'Bids' inside it. To the right of this arrow is a 'Sort By' dropdown menu set to 'Due Date'. Below these elements is a list of bid entries. A red arrow points to the first entry, 'TSEBIDVINO24JAN01'. The list contains three entries, each with a title, a description, and an 'Active' status button.

Bid ID	Description	Broadcast	Due	Planholders	Watch	Status
TSEBIDVINO24JAN01	City of Fort Pierce - Purchasing Department, Fort Pierce, AZ	1/24/2020	3/1/2020	3	Watch	Active
AA-BB-CC-DD-EE	agency2.0, Texas, FL	2/4/2020	2/29/2020	0	Watch	Active
TESTBID	agency2.0, Texas, FL					Active

Step 2

Once you are in the solicitation, you will see the Bid Details page that is standard for all solicitations

- When you are ready to submit your bid, click on “Submit E-Bid Proposal”

TESTBID Active

Bid Details

Agency Name: Agency 123
Bid Writer: Agency 123
Bid ID: BIDD-1234567890123456
Bid Type: E-BID
Broadcast Date: 02/06/2020 04:40 Eastern
Fiscal Year: 2020
Due: 02/28/2020 11:00 PM Eastern
Bid Status Text: BID STATUS

Scope of Work

SCOPE TEXT

Documents

Filename	Type	Date Modified	Status
file	Attachment	02/06/2020	Complete

Distribution Info

Bid Bond: None
Plan (Mandatory): None
E-bidding: Submit
Distributed By: Demandstar
Distribution Method: Download and Mail
Distribution Options: Bid has no blueprints associated with it
Project Estimated Budget: \$120,000.00
Distribution Notes: None

Publications


View Legal Ad

Pre-Bid Conference

No Pre-Bid Conference Data Found

Commodity Code

[001-945-00] MUNICIPAL SERVICES

 [Submit E-Bid Proposal](#)

Step 3

Enter information requested page-by-page and you can see what will come next via the menu bar on the left under “E-Bid Progress”

Enter “0” as your bid (proposal) amount.

(As cost proposals remain confidential until after contract award (if any), Columbus Consolidated Government will not consider proposed costs, fees, revenues, etc., that are entered directly into DemandStar.)



DEMANDSTAR Dashboard Bids Quotes Coming Soon! Activities Coming Soon! Messages Responses Robyn Gallardi

Home > Bids > TESTBID > My Ebid Response Save & Finish Later Cancel

E-Bid Response

Bid Details

Agency Name agency2.0
Bid Number EBID-123456-0-2020/AD
Bid Due Date 02/29/2020 (PST)
Bid Opening 23 days, 04 hours, 23 minutes, 54 seconds Remaining
Bid Name TESTBID

E-Bid Progress

- Contact Information
- Documents Upload
- Review Bid

Contact Information

Company Name
Calgon Carbon Corporation

Address 1
P. O. Box 717

Address 2
Address 2 (optional)

City
Pittsburgh

Country United States of Ame... State/Province Pennsylvania

County Select... Postal Code 15230-0717

Phone Number 4127876810 Extension Extension (optional)

Bid Amount 127,000 Invalid Alternate Bid Amount Alternate Bid Amount (optional)

Notes
For the full 6 month contract (optional)

Next

Step 4

After you click NEXT on the Contract Information page, you will be directed to enter the documents required.

Create one (1) file containing **only** the required documents listed on the “*Electronic Proposal Submission Checklist*” page of the specifications and upload using the “**Bidder Response ALL Documents**” function.

NOTE: Do not enter information using the “Supplemental Documents” function.

Due to file size limitations, please do not include the City’s specification document in your uploaded response as this information is already on file. Font and page limitations may also apply.

BEST PRACTICE TIP: In some instances, multiple addenda may be issued for a solicitation. To avoid having to re-upload your firm’s response file multiple times, it is **recommended** that vendors upload within five (5) business days of the due date. The City posts all documents, to include addenda, on the Finance Department Bid Opportunities web page: https://www.columbusga.gov/finance/purchasing/docs/opportunities/Bid_Opportunities.htm.

The screenshot displays the DEMANDSTAR E-Bid Response interface. On the left, the 'Bid Details' section shows Agency Name (AGENCY), Bid Number (000-123456-000000), Bid Due Date (12/31/2024 (PST)), Bid Opening (23 days, 04 hours, 17 minutes, 21 seconds Remaining), and Bid Name (123456). Below this is the 'E-Bid Progress' section with steps: Contact Information, Documents Upload, and Review Bid. The main 'E-Bid Response' section has a 'Required Documents' area with instructions: 'The following documents are required by the agency for this project. Please select which documents you will be submitting electronically (linked), and which ones you will submit directly to the agency (offsite)'. Below this is a table of 'Agency Accepted File Formats' with columns for 'Required Document', 'Submission Option', and 'Uploaded Document'. The 'Required Document' column lists items like 'Service Dec agencyID'. The 'Submission Option' column has a dropdown menu. The 'Uploaded Document' column has a 'Choose a file' button. Below the table is the 'Supplemental Documents' section with a note: 'You can upload additional documents here.' and an 'Add Document' button. At the bottom are 'Previous' and 'Next' buttons. A green arrow points to the 'Upload Complete File' button, and a red arrow points to the 'Supplemental Documents' section with the text 'DO NOT USE SUPPLEMENTAL DOCUMENTS'.

Step 5

Review Your E-Bid Response, and if everything is correct, then press “Submit Response”

You are done! And the government to which you’ve submitted this will download your responses and documents and see the day and time upon which you submitted your proposal.

The screenshot shows the DEMANDSTAR web application interface. The top navigation bar includes 'Dashboard', 'Bids', 'Quotes', 'Activities', 'Messages', and 'Responses'. The user's name 'Robyn Gallardi' is visible in the top right corner. The main content area is titled 'Review Your E-Bid Response' and is divided into several sections:

- Bid Details:** Agency Name: Agency 0.0, Bid Number: EBID-123456-0-2020-AD, Bid Due Date: 02/09/2020 (PST), Bid Opening: 22 days, 04 hours, 33 minutes, 47 seconds Remaining, Bid Name: TESTBID.
- E-Bid Progress:** A progress indicator showing 'Contact Information' as the current step, with 'Documents Upload' and 'Review Bid' as previous steps.
- Contact Info:** Company Name: Calgon Carbon Corporate, Address 1: P.O. Box 717, Address 2: Pittsburgh, State: Pennsylvania, Country: United States of America, Postal Code: 15200-0717, Phone Number: 4127876810, Fax: Bid Amount: \$127,000.00, Alternate Bid Amount: Notes: For the full 6 month contract.
- Agency Required Documents:** A green checkmark indicates 'Service Desc agency(2.0)(Electronic/Online)' is complete.
- Supplemental Documents:** A green checkmark indicates 'References(Electronic/Online)' is complete.

At the bottom of the page, there are two buttons: 'Previous' and 'Submit Response'. A red arrow points to the 'Submit Response' button. Below the 'Submit Response' button, there is a small text box with instructions: 'After clicking "Submit Response" the following process will be: 1. We will verify that your response is complete as entered. 2. You will see a confirmation page with your confirmation number and date/time stamp of your upload. 3. You will receive a confirmation e-mail indicating a bid response submitted. 4. You may track your response submission under the Responses page. If you do not receive any of the above, please call Supplier Services at (206) 940-0005.'

Hazardous Materials Assessment Report

Supplemental Report to the Phase I ESA Completed May 4, 2018

Former Georgia State Farmers Market

318 10th Avenue

Columbus, Muscogee County, GA

June 14, 2018

Terracon Project No. E2177122

ACRES Property ID 237375



Prepared for:

Columbus Consolidated Government
Columbus, Georgia

Prepared by:

Terracon Consultants, Inc.
Birmingham, Alabama

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

June 14, 2018

Columbus Consolidated Government
420 Tenth Street, Annex Building
Columbus, GA 31901

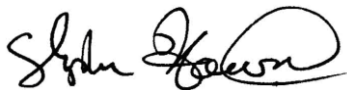
Attn: Ms. Laura Johnson
P: (706) 225-3918
E: LJohnson@columbusga.org

Re: Hazardous Materials Assessment Report
Supplemental Report to the Phase I ESA Completed May 4, 2018
Former Georgia State Farmers Market
318 10th Avenue
Columbus, Muscogee County, Georgia
Terracon Project No. E2177122

Dear Ms. Johnson:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed hazardous materials assessment report for structures located at the above-referenced site. This service was authorized under Task Authorization - E2177122, Task 01A4 dated April 24, 2018 and the contract executed between the Consolidated Government of Columbus, Georgia and Terracon on November 27, 2017 and authorized for release on December 7, 2017. The Columbus Consolidated Government Brownfield Assessment Grant for brownfields hazardous substances and petroleum assessment is funded with the U.S. Environmental Protection Agency (EPA), Region 4 Cooperative Agreement BF00D59317-0. Services for this hazardous materials assessment were conducted as part of Task 1 of the Cooperative Agreement Work Plan negotiated between the Columbus Consolidated Government and EPA and funding was split between hazardous substances and petroleum assessment grant funds.

Sincerely,
Terracon Consultants, Inc.



Stephen Howard
Senior Staff Industrial Hygienist



Amanda McKenney, CIH
Approved Project Reviewer

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APPENDICES

APPENDIX A	Exhibit 1, Site Plan
APPENDIX B	Certification
APPENDIX C	Georgia EPD 10-day Notification Form
APPENDIX D	Asbestos Sample Summary
APPENDIX E	Paint Chip Sample Summary
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APPENDIX G	Analytical Laboratory Data Reports and Chain of Custody Forms
APPENDIX H	Photographs

**HAZARDOUS MATERIALS ASSESSMENT REPORT
SUPPLEMENTAL REPORT TO THE PHASE I ESA
COMPLETED MAY 4, 2018
FORMER GEORGIA STATE FARMERS MARKET
318 10TH AVENUE
COLUMBUS, MUSCOGEE COUNTY, GEORGIA
Terracon Project No. E2177122
June 14, 2018**

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) conducted a hazardous materials assessment of structures at the former Georgia State Farmers Market located in Columbus, Georgia. The hazardous materials assessment was conducted May 4-5, 2018, in accordance with Task Authorization - E2177122, Task 01A4 dated April 24, 2018 and the contract executed between the Consolidated Government of Columbus, Georgia and Terracon on November 27, 2017 and authorized for release on December 7, 2017. The Columbus Consolidated Government Brownfield Assessment Grant for brownfields hazardous substances and petroleum assessment is funded with the U.S. Environmental Protection Agency (EPA), Region 4 Cooperative Agreement BF00D59317-0. Services for this hazardous materials assessment were conducted as part of Task 1 of the Cooperative Agreement Work Plan negotiated between the Columbus Consolidated Government and EPA and funding was split between hazardous substances and petroleum assessment grant funds.

1.1 Project Objective

The objective of these services was to determine the presence or absence of hazardous materials associated with the onsite structures that may impact future use or plans for the subject property. The scope of services included limited sampling of suspect asbestos-containing materials (ACM), limited paint chip sampling (for the presence of lead), and a visual assessment of other potential hazardous materials (e.g. mercury-containing thermostats, fluorescents lamps, polychlorinated biphenyl [PCB] containing ballasts, chlorofluorocarbon- [CFC] or hydrochlorofluorocarbons- [HCFC] containing equipment) associated with site structures.

1.2 General Conditions and Limitations

The hazardous materials assessment was based on information provided to Terracon regarding building conditions. At the request of the Client, the scope of services did not include sampling of roofing systems or associated roofing materials. The level of effort and associated tasks performed for this service was limited to the scope of services outlined in the Task Authorization.

Terracon did not attempt to identify every potential exposure or hazard present in the site structures.

The limited asbestos sampling is not intended to represent a comprehensive survey as required by the EPA's National Emission Standards for Hazardous Air Pollutants, NESHAP (40 CFR Part 61, Subpart M). Additional asbestos sampling is required prior to demolition of site structures and may be required prior to extensive renovation activities in the site structures. Please refer to Section 3.1.1 for additional details regarding NESHAP.

The limited paint chip sampling was conducted in general accordance with the EPA's work practice standards for conducting lead paint activities (40 CFR 745.227, and State and local regulations) in an effort to meet informational needs to comply with the Occupational Safety and Health Administration (OSHA) Lead in Construction Standard (29 CFR 1926.62).

2.0 SITE AND BUILDING DESCRIPTIONS

The site, identified as Parcel Number: 020 016 006 (approximately 14.67 acres), is located at 318 10th Avenue in Columbus, Muscogee County, Georgia. The site contains multiple vacant buildings consisting of a restaurant, offices, warehouses, covered loading areas, and a vehicle maintenance building. The owner of the site, the Georgia Building Authority, maintains the site. According to historical topographic and Sanborn maps, the site was redeveloped in 1955 as the Georgia State Farmers Market. A site plan depicting individual buildings is included as Exhibit 1, Appendix A.

Warehouse #1 (Building 1)

The warehouse is an approximately 17,000 square feet, one-story structure that sits atop a slab-on-grade concrete foundation. The structure comprises a front office area (west end of structure) and adjoining warehouse. The structure has a primary gable-style metal roof system; a flat, built-up roof system covers portions of the office area. Based on historical information, the structure was constructed in approximately 1955.

The office area contains multiple offices, a mechanical room, and three bathrooms. Interior walls are plaster and concrete block. Some walls are covered with wood paneling that appeared to be mechanically fastened to the walls. Walls in the bathrooms are covered with ceramic tile. Flooring in the office area consists of vinyl floor tile (covered by carpeting in some areas) and ceramic tile. Ceilings in the office are primarily suspended ceilings, below attic space, containing 2x4 ceiling tiles in a metal grid. Ceilings in the bathrooms are plaster. The heating, ventilation, and air conditioning (HVAC) is a forced air system with ducted air supplies and returns. The air handling equipment is located in a mechanical closet.

The warehouse has been subdivided into twelve vendor areas. Each vendor area contains a walk-in cold storage unit. The vendor areas are separated by gypsum wallboard. Ceilings in

the areas are open to the roof decking, and floors are bare concrete. The walk-in cold storage units appear to have been cooled by individual package cooling units; however, the majority of the cooling units and associated water piping has been removed from the structure.

Warehouse #2 (Building 2)

The warehouse is a one-story concrete block and brick structure that sits atop a slab-on-grade concrete foundation. The structure contains approximately 17,800 square feet of enclosed space and approximately 4,700 square feet of covered loading dock space. The structure comprises a bathroom and adjoining warehouse. The structure has a gable-style metal roof system. Based on historical information, the structure was constructed in approximately 1955.

The warehouse is subdivided into three vendor areas separated by concrete block walls. Each vendor area contains multiple walk-in cold storage units and an office. The offices comprise wood paneling and gypsum board construction. With the exception of the cold storage units, Building 2 did not appear to be conditioned. The cold storage units appear to have been cooled by individual package cooling units; however, the majority of the cooling units and associated water piping has been removed from the structure.

Warehouse #3 (Building 3)

The warehouse is a one-story concrete block and brick structure that sits atop a slab-on-grade concrete foundation. The structure contains approximately 13,700 square feet of enclosed space and approximately 350 square feet of covered loading dock space. The structure has a flat, built-up roof system. Based on historical information, the structure was constructed in approximately 1968.

The warehouse is subdivided into four vendor areas separated by concrete block walls. Each vendor area contains multiple walk-in cold storage units and an office, including a bathroom. The offices comprise wood paneling and concrete block construction. The office space in the eastern-most vendor area contained a window air conditioning unit. Otherwise, Building 3 did not appear to be conditioned, with the exception of the cold storage units. The cold storage units appear to have been cooled by individual package cooling units; however, the majority of the cooling units and associated water piping has been removed from the structure.

Warehouse #4 (Building 4)

The warehouse is a concrete block and brick structure that sits atop a slab-on-grade concrete foundation. The structure contains approximately 34,000 square feet of enclosed space and approximately 350 square feet of covered loading dock space. The structure has a flat, built-up roof system. Based on historical information, the structure was constructed in approximately 1973.

The majority of the structure comprises one-story conditioned and cold-storage warehouse space. Interior walls are concrete block, floors are bare concrete, and ceilings are metal and

concrete decking. A second-story warehouse area is also located at the rear, north side of the structure. Individual cold storage units appear to be cooled by individual package cooling units.

Two-story office space occupies the front, south side of the building. Interior walls in the office space are concrete block and wood paneling (mechanically fastened to wood studs). Flooring in the office space consists of vinyl floor tile, with carpeting covering some areas of floor tile. Ceramic wall tile and floor tile are present in four bathrooms located in the office space. Ceilings in the office space consist of suspended ceiling tiles in a metal grid. HVAC for the office space appears to be a forced air system with ducted air supplies and returns. The air handling equipment is located in a mechanical room on the second floor.

Former Columbus Towing & Recovery Building (Building 5)

The former Columbus Towing and Recovery building is an approximately 3,000 square feet, one-story, concrete block structure that sits atop a slab-on-grade concrete foundation. The structure has a flat, built-up roof system. Based on historical information, the structure was constructed in approximately 1973.

The building interior comprises open garage space, with a small office and bathroom located on the north side. The office is concrete block construction. Flooring in the building is bare concrete, with the exception of the bathroom which has ceramic floor tile. Ceramic wall tile is also present in the bathroom. The building has ceiling-mounted gas heaters, but appeared to be otherwise unconditioned.

Loading Area #4 (Building 6)

Building 6 is an approximately 7,300 square feet, one-story, covered loading dock. The building consists of a concrete slab loading dock covered by a metal, gable-style roof system supported by metal columns. An approximately 500 square feet enclosed brick and concrete block bathroom facility is located at the west end of the building. The bathroom has a flat, built-up roof system. Based on historical information, the structure was constructed in approximately 1973.

The bathroom interior is finished with ceramic floor and wall tile. The ceilings in the bathrooms are suspended ceiling tiles in a metal grid system. The bathroom is unconditioned.

Loading Area #3 (Building 7)

Building 7 is an approximately 11,700 square feet, one-story, covered loading dock. The building consists of a concrete slab loading dock covered by a metal, gable-style roof system supported by metal columns. Based on historical information, the structure was constructed in approximately 1955. The building is unconditioned.

Loading Area #2 (Building 8)

Building 8 is an approximately 6,000 square feet, one-story, covered loading dock. The building consists of a concrete slab loading dock covered by a metal, gable-style roof system supported by metal columns. Based on historical information, the building was constructed in approximately 1955. The building is unconditioned.

An approximately 350 square feet concrete block single-room office building with a flat roof system is located at the west end of the building underneath the main building roof system. The office interior is finished with a gypsum board ceiling, and vinyl floor tiles. The office exterior is covered with a stucco finish. The office appeared to be unconditioned.

Loading Area #1 (Building 9)

Building 9 is an approximately 15,800 square feet, one-story, covered loading dock. The building consists of a concrete slab loading dock covered by a metal, gable-style roof system supported by metal columns. Based on historical information, the building was constructed in approximately 1981. The building is unconditioned.

Restaurant (Building 10)

Building 10 is an approximately 8,100 square feet, one-story former restaurant. The restaurant is a concrete block and brick structure that sits atop a slab-on-grade concrete foundation and has a flat, built-up roof system. Based on historical information, the restaurant was constructed in approximately 1981.

Interior walls in the restaurant are concrete block, brick, gypsum board, and wood paneling (mechanically attached to wood studs). Some walls in the kitchen area and bathrooms are finished with ceramic tile. Flooring in the restaurant consists of carpeting (on concrete) and ceramic tile. Ceilings in the building are concrete, gypsum board, and suspended ceiling tile in a metal grid system. HVAC for the restaurant is a forced air system with ducted air supplies and returns. The air handling equipment is located in a mechanical room.

3.0 FIELD ACTIVITIES

3.1 Limited Asbestos Sampling

The limited asbestos sampling was conducted by Mr. Stephen Howard, an Asbestos Hazard Emergency Response Act, AHERA-certified asbestos inspector. A copy of his asbestos inspector certificate is attached as Appendix B. The sampling was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763 (AHERA). A summary of sampling activities is provided below.

3.1.1 Asbestos Regulatory Overview

The asbestos NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure. Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered regulated ACM (RACM). RACM must be removed prior to renovation or demolition activities which will disturb the materials. If the amount of RACM exceeds 10 linear feet or 10 square feet, the owner or operator must provide the State of Georgia with written notification of planned removal activities at least 10 working days prior to the commencement of asbestos abatement activities. Removal of RACM must be conducted by an appropriately accredited and licensed asbestos abatement contractor. Please note that in the State of Georgia for any demolition project a 10-notice is required regardless of the ACM content within the structure. A copy of the notification form is attached as Appendix C.

The OSHA Asbestos standard for construction (29 CFR 1926.1101) regulates workplace exposure to asbestos. The OSHA standard requires that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc as an eight-hour time weighted average). The OSHA standard classifies construction and maintenance activities which could disturb ACM, and specifies work practices and precautions which employers must follow when engaging in each class of regulated work.

3.1.2 Visual Assessment

The sampling activities began with visual observation of the interior and exterior of the site structures to identify homogeneous areas of suspect ACM. A homogeneous area consists of building materials that appear similar throughout in terms of color, texture and date of application. The assessment was conducted throughout visually accessible areas of the structures, excluding roofs. Building materials identified as concrete, glass, wood, masonry, metal or rubber were not considered suspect ACM.

3.1.3 Physical Assessment

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

3.1.4 Sample Collection

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with AHERA sampling protocols. Random samples of suspect materials were collected in each homogeneous area. Bulk samples were collected using wet methods as applicable to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

One hundred fifty-nine (159) bulk samples were collected from sixty-eight (68) homogeneous areas of suspect ACM in the site structures. A summary of suspect ACM samples collected during the survey is included as Appendix D.

3.1.5 Sample Analysis

Bulk samples were submitted under chain of custody to EMSL Analytical, Inc. (EMSL) in Cinnaminson, New Jersey for analysis by polarized light microscopy (PLM) with dispersion staining techniques per EPA methodology (EPA Method 600/R-93/116). The percentage of asbestos, where applicable, was determined by microscopic visual estimation. EMSL is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation No. 101048-0).

3.2 Limited Paint Chip Sampling

In conjunction with the limited asbestos sampling, Terracon conducted limited paint chip sampling for the presence of lead.

3.1.1 Lead paint regulatory Overview

The limited paint chip sampling activities were conducted in general accordance with the EPA's work practice standards for conducting lead paint activities (40 CFR 745.227, and State and local regulations) in an effort to meet informational needs to comply with the OSHA Lead in Construction Standard. Limited lead paint sampling was not intended to comply with the EPA's RRP Rule or The Department of Housing and Urban Development (HUD) guidelines. Lead is regulated by the EPA and OSHA.

The Resource Conservation and Recovery Act (RCRA) gave the USEPA authority to regulate the waste status of demolition or renovation debris, including lead-containing materials.

Specific notification and testing requirements must be addressed prior to transporting, treating, storing, or disposing of hazardous wastes. Lead containing wastes are considered hazardous waste under RCRA if Toxicity Characteristic Leaching Procedure (TCLP) results exceed 5 milligrams per liter (mg/L). EPA exempts from most RCRA requirements those generators whose combined hazardous waste generation is less than 100 kilograms (kg) per month.

Detectable lead quantities may constitute a lead dust hazard during renovation and demolition activities. Personnel performing renovation and demolition activities that may disturb painted components with concentrations of lead above the designated analytical detection limit should comply with all current OSHA regulations in order to minimize employee exposure. OSHA defines lead paint as a paint, which contains lead, regardless of the concentration. Currently, any proposed renovation or demolition is subject to the OSHA regulations (29 CFR 1926.62 – Lead Exposure in Construction). The OSHA regulation defines specific training requirements, engineering controls and working practices for construction personnel subject to this standard. Occupational exposure to lead occurring in the course of construction work, including maintenance activities, painting, alteration and repairs is subject to the OSHA “Interim” Lead Exposure in Construction standard.

Construction work covered by 29 CFR 1926.62 includes any repair or renovation activities or other activities that disturb in-place lead-containing materials, but does not include routine cleaning and repainting where there is insignificant damage, wear, or corrosion of existing lead-containing coatings or substrates. Employers must assure that no employee will be exposed to lead at concentrations greater than 50 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) averaged over an eight-hour period without adequate protection. The OSHA Standard also establishes an action level of 30 $\mu\text{g}/\text{m}^3$ which, if exceeded, triggers the requirement for medical monitoring.

The above overview is not intended to be inclusive of all potentially pertinent regulatory information. The relevant EPA and OSHA standards should be consulted prior to undertaking activities involving the demolition, renovation, or maintenance of surfaces coated with lead paints.

3.2.2 Sample Collection and Analysis

Terracon conducted limited paint chip sampling by visually assessing the site structures and selecting painted surfaces with visible flaking or detaching paint. Terracon collected forty-six (46) paint chip samples from painted surfaces in or associated with the site structures. A summary of paint chip samples collected during the survey is presented in Appendix E.

The paint chip samples were submitted under a chain of custody to EMSL for analysis by Flame Atomic Absorption method SW 846 3050B*/7000B. EMSL participates in the American

Industrial Hygiene Association (AIHA) Environmental Lead Proficiency Analytical Testing (ELPAT) Program (Accreditation No. 100194), to perform Flame Atomic Absorption analysis.

3.3 Visual Hazardous Materials Assessment

As part of the scope of services, site structures were visually inspected for other hazardous materials including: mercury that is typically contained in fluorescent, sodium, high intensity, and mercury vapor lamps, as well as in thermostats and electrical switches; CFCs or HCFCs that are typically contained within refrigeration systems (refrigerators, air conditioning units, etc.); PCBs that are typically contained in fluorescent light fixture ballasts and electrical transformers; Tritium-containing exit signs and other ionizing sources; and other universal wastes such as batteries and pesticide containers.

4.0 FINDINGS AND RECOMMENDATIONS

4.1 Limited Asbestos Sampling

Based on the results of laboratory analysis, samples of the following materials were identified as containing asbestos:

Building 1

- 12x12 brown vinyl floor tile and black mastic in the office area
- Black mastic associated with non-asbestos-containing 12x12 white vinyl floor tile in the office area, back room and mechanical room
- Concrete-based insulation panels in the walk-in cold storage units
- Exterior door caulk
- Ceramic wall tile mortar in the bathrooms (<1% asbestos content)

Building 2

- Concrete-based insulation panels in the walk-in cold storage units
- Ceramic wall tile mortar in the bathrooms

Building 3

- Ceramic wall tile mortar in the vendor area bathrooms
- Concrete-based insulation panels in the walk-in cold storage units
- 2x2 suspended ceiling tiles in office space, west vendor area

Building 4

- Black mastic associated with non-asbestos-containing 12x12 blue-speckled vinyl floor tile (under carpeting) in the office area
- 9x9 floor tile and black mastic in the office area

- Remnant black floor tile mastic associated with non-asbestos-containing carpet glue in the office area (<1% asbestos content)
- Concrete-based insulation panels in the walk-in cold storage units
- Mudded pipe insulation on pipe joint and elbows in the office area, 2nd floor mechanical room
- Tar coating metal foil HVAC insulation in the office area, 2nd floor mechanical room
- Stair treads in the office area
- Ceramic wall tile mortar in the bathrooms in the office area

Building 5

- Thermal pipe insulation, storage room associated with office

Building 6

- Ceramic wall tile mortar in the bathrooms in the bathrooms

No suspect ACM was identified in Loading Area #3 (Building 7) or Loading Area #1 (Building 9). No asbestos was identified in samples collected from Loading Area #2 (Building 8) of the Restaurant (Building 10).

The scope of services of the limited asbestos sampling did not include building roofs. Please note that suspect ACM may be present in or associated with roofing systems for the site structures.

4.1.1 Recommendations

The asbestos-containing vinyl floor tiles and floor tile mastics in Building 1 and Building 4 are considered NESHAP Category I non-friable ACM in good condition. Terracon recommends these materials be removed by a State of Georgia licensed asbestos abatement contractor prior to disturbance.

The asbestos-containing exterior door caulk associated with Building 1, the insulation panels in cold storage units for Buildings 1-4, ceramic wall tile mortar in Buildings 2-4 and Building 6 bathrooms, the tar-coating on HVAC foil insulation in Building 4, and the stair tread in the Building 4 office area are considered NESHAP Category II non-friable ACM, in good condition. These materials must be removed by a State of Georgia licensed asbestos abatement contractor prior to disturbance.

The asbestos-containing 2x2 ceiling tiles in the Building 3 office area, the mudded pipe insulation in the Building 5 office area mechanical room, and the thermal pipe insulation in the Building 5 storage room are considered RACM and must be removed by a State of Georgia licensed asbestos abatement contractor prior to disturbance.

Samples of bathroom ceramic wall tile mortar in Building 1 and carpet glue in Building 4 were determined by the laboratory to contain >1% asbestos content and, therefore, not regulated under NESHAPS. For the purposes of this hazardous materials assessment report, these materials are considered to be ACM until additional sampling and/or analysis (such as point count analysis) confirms otherwise.

A summary of the classification and condition of the identified ACM is presented in Appendix F. The laboratory analytical reports and the chain of custody forms are included in Appendix G. Photographs of the structures and identified ACM are included in Appendix H.

Please note that limited asbestos sampling is not intended to represent a comprehensive survey as required by the EPA's NESHAP (40 CFR Part 61, Subpart M) prior to renovation or demolition activities. Suspect materials, other than those identified as part of the limited asbestos sampling may exist within the site structures. Should future site use include demolition or extensive renovation of site structures, additional asbestos sampling will be necessary. The scope of services of the limited asbestos sampling did not include building roofs. Please note that suspect ACM may be present in or associated with roofing systems for the site structures.

4.2 Limited Paint Chip Sampling

Based on the results of laboratory analysis, paint chip samples collected from the following painted substrates were identified as containing lead concentrations exceeding the laboratory reporting limit of 0.008% by weight and are, therefore, considered lead-containing paint per OSHA:

Building 1

- Yellow paint on concrete curb – 5.4% lead content
- Blue paint on exterior metal window frame – 0.12% lead content
- Green paint on exterior metal support column – 11% lead content
- Blue paint on exterior metal support column – 15% lead content
- White paint on concrete wall – 0.015% lead content

Building 2

- Blue paint on metal door and frame – 19% lead content
- White paint on exterior metal support column – 17% lead content
- Yellow on paint on exterior metal trim (concrete loading dock) – 0.019% lead content
- Blue paint on exterior metal support column – 19% lead content

Building 3

- Black paint on metal door and frame – 0.13% lead content
- Blue & Red paint metal door and frame – 0.037% lead content
- Blue paint on exterior metal support column – 0.15% lead content

- Blue paint on exterior metal support column – 0.27% lead content
- Yellow paint on exterior metal handrail – 2.1% lead content

Building 4

- Yellow paint on interior metal support column – 1.1% lead content
- White paint on interior metal support column – 0.34% lead content
- Red paint on exterior metal bollard – 0.098% lead content

Building 5

- White paint on interior metal drain pipe – 0.33% lead content
- White paint on interior metal window frame – 0.020% lead content
- White paint on interior metal conduit – 0.47% lead content
- White paint on interior concrete block – 0.026% lead content
- White paint on metal door and frame – 0.91% lead content

Building 6

- Yellow paint on metal trim (concrete loading dock) – 0.015% lead content
- Yellow paint on concrete loading dock – 8.6% lead content
- Yellow paint on metal handrail – 2.7% lead content
- Gray paint on metal support column – 13% lead content

Building 7

- Yellow paint on concrete loading dock – 6.9% lead content
- Yellow paint on metal handrail – 0.26% lead content
- Dark yellow paint on metal trim (concrete loading dock) – 7.2% lead content
- Gray paint on metal support column – 21% lead content

Building 8

- Yellow paint on concrete loading dock – 5.9% lead content
- Yellow paint on metal trim (concrete loading dock) – 0.87% lead content
- Dark yellow paint on concrete loading dock – 0.39% lead content
- Gray paint on metal support column – 3.3% lead content

Building 9

- Yellow paint on concrete loading dock – 9.3% lead content
- Yellow paint on metal trim (concrete loading dock) – 8.1% lead content
- Gray paint on metal support column – 3.7% lead content
- Green paint on metal support column – 0.024% lead content

Building 10

- Yellow paint on exterior concrete sidewalk – 2.3% lead content
- White paint on exterior concrete soffit – 0.014% lead content

Forty (40) of the forty-six (46) paint chip samples collected from the site structures indicated lead concentrations exceeding the laboratory reporting limit of 0.008% by weight and are, therefore, considered lead-containing paint per OSHA. A sample summary is presented in Appendix E. The lead paint laboratory analytical report is included in Appendix G.

4.2.1 Recommendations

Based on the findings of the limited paint chip sampling, Terracon recommends that mechanical disturbance (sanding, grinding) of the paint surfaces of the site structures be avoided. Caution should always be used during activities that may impact painted surfaces to prevent potential lead exposure. TCLP analysis should be conducted prior to disposal of any lead-containing paint waste associated with site structures and components in the event of their removal. Paint waste exceeding 5 mg/L lead by TCLP analysis must be disposed of appropriately as RCRA hazardous waste.

4.3 Visual Hazardous Materials Assessment

Terracon identified the following items during the visual hazardous materials assessment of the site structures. In each of the site structures, Terracon conducted a representative visual assessment of florescent light fixtures to determine the potential PCB content. Typically, ballasts manufactured prior to 1979 are presumed to contain PCBs unless clearly marked as containing “No PCBs.” Please note that quantities are estimates only. Additional suspect materials, other than those identified during the assessment, may exist within the site structures.

Building 1

- Florescent light fixtures containing approximately one hundred seventy-two (172) mercury-containing light bulbs and suspect PCB-containing ballasts were observed in the building. During the visual inspection of representative light fixtures, none of the light ballasts were observed to contain “No PCBs” labeling. The light fixture ballasts, therefore, are assumed to be PCB-containing.
- One air conditioning window unit, potentially containing CFCs or HCFCs, was observed in the office area.

Building 2

- Florescent light fixtures containing approximately one hundred ninety-two (192) mercury-containing light bulbs and suspect PCB-containing ballasts were observed in the building. During the visual inspection of representative light fixtures, none of the light ballasts were observed to contain “No PCBs” labeling. The light fixture ballasts, therefore, are assumed to be PCB-containing.
- One mercury-containing thermostat was observed in a vendor area (second from the west).

- Two package cooling units, potentially containing CFCs or HCFCs, were observed in walk-in cold storage units in the eastern vendor area of the building.

Building 3

- Florescent light fixtures containing approximately one hundred sixteen (116) mercury-containing light bulbs and suspect PCB-containing ballasts were observed in the building. During the visual inspection of representative light fixtures, none of the light ballasts were observed to contain “No PCBs” labeling. The light fixture ballasts, therefore, are assumed to be PCB-containing.
- Approximately fourteen (14) suspect HID lights, potentially containing mercury, were observed in cold storage units in the building.
- One air conditioning window unit was observed in an office area (east side of building).

Building 4

- Florescent light fixtures containing approximately four hundred eighty-two (482) mercury-containing light bulbs and suspect PCB-containing ballasts were observed in the building. During the visual inspection of representative light fixtures, none of the light ballasts were observed to contain “No PCBs” labeling. The light fixture ballasts, therefore, are assumed to be PCB-containing.
- One air conditioning window unit was observed in the office area (1st floor).
- Three thermostats with mercury-containing thermometers and one large mercury-containing thermometer, all associated with cold storage units, were observed in the building.

Building 5

- Florescent light fixtures containing approximately eighty-four (84) mercury-containing light bulbs and suspect PCB-containing ballasts were observed in the building. During the visual inspection of representative light fixtures, none of the light ballasts were observed to contain “No PCBs” labeling. The light fixture ballasts, therefore, are assumed to be PCB-containing.

Building 6

- Florescent light fixtures containing approximately sixteen (16) mercury-containing light bulbs and suspect PCB-containing ballasts were observed in the building. During the visual inspection of representative light fixtures, none of the light ballasts were observed to contain “No PCBs” labeling. The light fixture ballasts, therefore, are assumed to be PCB-containing.

Building 7

- Florescent light fixtures containing approximately twenty-six (26) mercury-containing light bulbs and suspect PCB-containing ballasts were observed in the building. During the visual inspection of representative light fixtures, none of the light ballasts were

observed to contain “No PCBs” labeling. The light fixture ballasts, therefore, are assumed to be PCB-containing.

Building 8

- Florescent light fixtures containing approximately fourteen (14) mercury-containing light bulbs and suspect PCB-containing ballasts were observed in the building. During the visual inspection of representative light fixtures, none of the light ballasts were observed to contain “No PCBs” labeling. The light fixture ballasts, therefore, are assumed to be PCB-containing.
- One packaged terminal air conditioner (PTAC) unit was observed in the office building

Building 9

- Florescent light fixtures containing approximately eighty-eight (88) mercury-containing light bulbs and suspect PCB-containing ballasts were observed in the building. During the visual inspection of representative light fixtures, none of the light ballasts were observed to contain “No PCBs” labeling. The light fixture ballasts, therefore, are assumed to be PCB-containing.

Building 10

- Florescent light fixtures containing approximately one hundred sixteen (116) mercury-containing light bulbs and suspect PCB-containing ballasts were observed in the building. During the visual inspection of representative light fixtures, none of the light ballasts were observed to contain “No PCBs” labeling. The light fixture ballasts, therefore, are assumed to be PCB-containing.

Prior to demolition or renovation, the above-identified potentially hazardous materials should be removed intact, segregated, packaged and recycled, or disposed in accordance with applicable state and federal regulations.

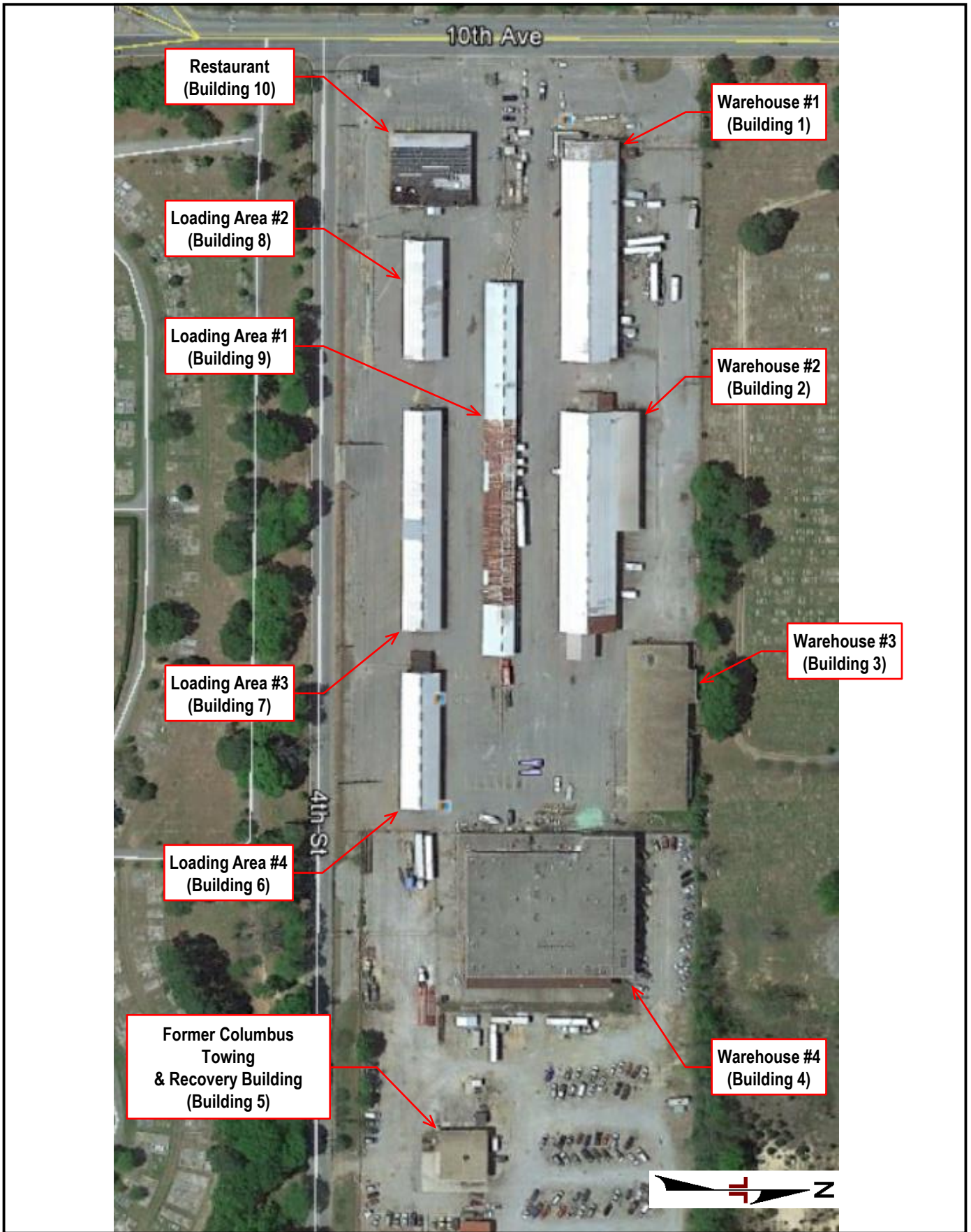
5.0 GENERAL COMMENTS

This hazardous materials assessment was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the structures. The information contained in this report is relevant to the dates on which this survey was performed, and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by Columbus Consolidated Government for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of

regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

APPENDIX A

EXHIBIT 1, SITE PLAN



Project Manager: STH	Project No. E2177122	 110 12th Street North Birmingham, Alabama 35203 PH. (205) 942-1289 FAX. (205) 443-5302	Site Plan Hazardous Materials Assessment Former Georgia State Farmers Market 318 10th Avenue Columbus, Muscogee County, Georgia	Exhibit 1
Drawn By: STH	Scale: As Shown			
Checked By: AJM	File Name: E2177122			
Approved By: AJM	Date: 6/05/18			

APPENDIX B
CERTIFICATIONS

THE UNIVERSITY OF ALABAMA®



has examined the documentation of asbestos training and qualifications of the person named below and confers this

Certificate of Accreditation

For the Asbestos Contractor Discipline

INSPECTOR

Stephen T Howard

Alabama Accreditation Number
AIN1017159469

Certificate Expiration Date

October 4, 2018

This certificate has been issued pursuant to the authority granted to The University of Alabama SafeState Program by the Alabama Asbestos Contractor Accreditation Act, Alabama Act No. 89-517, May, 1989 and Alabama Act No. 97-626, May, 1997.

A handwritten signature in blue ink, appearing to read "Janice", written over a horizontal line.

Executive Director

A handwritten signature in blue ink, appearing to read "J.H.P.", written over a horizontal line.

Associate Director for Environmental Programs

APPENDIX C

GEORGIA EPD 10-DAY NOTIFICATION FORM

**GEORGIA PROJECT NOTIFICATION FORM
FOR ASBESTOS RENOVATION, ENCAPSULATION, OR DEMOLITION**

USE AN ATTACHMENT TO PROVIDE ADDITIONAL INFORMATION FOR ANY SECTION WHEN NEEDED TO PROVIDE COMPLETE DETAILS.

DO NOT LEAVE ANY SECTION BLANK – INSERT UNKNOWN OR N/A IF NEEDED.

FOR PROJECTS WHERE FEES ARE DUE:
EPD ASBESTOS FEES LOCKBOX
POST OFFICE BOX 101173
ATLANTA, GEORGIA 30392
(SEE SECTION 6 FOR FEE CALCULATION INSTRUCTIONS)

FOR PROJECTS WHERE FEES ARE NOT DUE:
EPD ASBESTOS PROGRAM
ATTN: ASBESTOS NOTIFICATIONS
4244 INTERNATIONAL PARKWAY, SUITE 104
ATLANTA, GEORGIA 30354

SECTION 1A - TYPE OF NOTICE (USE THE APPROPRIATE CHECKBOX TO INDICATE THE TYPE OF NOTICE YOU ARE SUBMITTING)

ORIGINAL - INITIAL REVISION # _____

SECTION 1B - TYPE OF PROJECT CHECK IF SECTION REVISED

RENOVATION/ABATEMENT **ONLY** RENOVATION/ABATEMENT **PRIOR TO** DEMOLITION ENCAPSULATION
 DEMOLITION ONLY JOINT DEMOLITION/RENOVATION ORDERED DEMOLITION
 EMERGENCY COURTESY (FOR NON-FRIABLE PROJECTS OR UNDER TRIGGER QUANTITY PROJECTS **ONLY!!**)

SECTION 2 – SITE INFORMATION CHECK IF SECTION REVISED

PROJECT NAME:
PROJECT ADDRESS:
PROJECT CITY: ZIP: COUNTY:
NEAREST MAJOR INTERSECTION:
BLDG SIZE IN SQ. FT: AGE OF BUILDING IN YEARS: NUMBER OF FLOORS IN BUILDING:
SPECIFIC LOCATION IN BUILDING OF ASBESTOS BEING REMOVED:

SECTION 3A – ABATEMENT CONTRACTOR CHECK IF SECTION REVISED

ASBESTOS REMOVAL CONTRACTOR:
CONTRACTOR'S STREET ADDRESS: COMPANY CERTIFICATE #:
CITY: STATE: ZIP: PHONE: FAX:
GA LICENSED AGENT: GA AGENT'S ID: EXPIRES: CELL PHONE:

3B – DEMOLITION CONTRACTOR CHECK IF SECTION REVISED

DEMOLITION CONTRACTOR:
DEMOLITION CONTRACTOR'S STREET ADDRESS:
CITY: STATE: ZIP: PHONE: FAX:

SECTION 4 – ACM INFORMATION* Required for Compliance of Georgia Rules CHECK IF SECTION REVISED

IS ASBESTOS PRESENT? YES NO UNKNOWN FRIABLE NON-FRIABLE BOTH
DID AN AHERA ACCREDITED INSPECTOR INSPECT THIS SITE? YES NO ASSUMED ASBESTOS
INSPECTOR NAME: INSPECTOR PHONE:
ACCREDITATION COURSE: CERTIFICATE NUMBER: EXPIRES:

SECTION 5 – WORK SCHEDULES (10 WORKING DAY ADVANCE NOTIFICATION REQUIRED FOR NON-EMERGENCY NOTIFICATIONS!)

- CHECK IF SECTION REVISED

ABATEMENT START DATE	ABATEMENT END DATE	WORK DAYS (MON-SUN)	WORK HOURS (EX : 7A – 4P)
DEMOLITION START DATE	DEMOLITION END DATE	WORK DAYS (MON-SUN)	WORK HOURS (EX : 7A – 4P)

SECTION 6 – ACM AMOUNTS, TYPE CODES, AND FEE CALCULATION

CHECK IF SECTION REVISED

FIRST, LOCATE THE MATERIAL TO BE REMOVED IN COLUMN A. COLUMN B SHOWS THE USUAL NESHAP CATEGORY FOR THE MATERIAL. COLUMN C SHOWS THE CATEGORY THE MATERIAL WILL LIKELY BECOME DURING ABATEMENT, AND THAT IS THE CODE THAT SHOULD BE USED FOR COMPLETING THIS FORM. NOW, ENTER THE SQ. FT AND/OR L.F. AMOUNTS OF ACM TO BE ABATED DURING THIS PROJECT UNDER THE CORRECT HEADING ACCORDING TO TYPE IN COLUMN D, E, AND/OR F. THEN, LOCATE THE CORRESPONDING TYPE CODE(S) FOR THE MATERIAL(S) IN COLUMN G AND ENTER THE CODES IN THE SPACES PROVIDED BEFORE PROCEEDING TO THE FEE CALCULATION SECTION.

Column A ACM TYPE	Column B USUAL NESHAP CATEGORY			Column C WILL LIKELY BECOME WHEN ABATED	SF OR LF AMOUNT TO BE ABATED DURING PROJECT			Column G ACM TYPE CODE
	Category 1	Category 2	RACM		Column D Category 1	Column E Category 2	Column F RACM	
ASBESTOS ASPHALT SHINGLES	√			1 or RACM				AAS
ASBESTOS CEMENT (TRANSITE) PANELS		√	√	2 or RACM				ACP
ASBESTOS CEMENT (TRANSITE) ROOFING		√	√	RACM				ACR
ASBESTOS CEMENT (TRANSITE) SIDING SHINGLES		√	√	RACM				ACS
ASBESTOS FLASHING	√		√	1				AF
ASBESTOS GASKET	√		√	1 or RACM				AG
BOILER INSULATION			√	RACM				BI
BUILT-UP ROOFING	√			1 or RACM				BUR
COVE (BASEBOARD) MOLDING MASTIC	√			1				CM
CEILING PLASTER			√	RACM				CP
CEILING TILE			√	RACM				CT
DUCT SEAM MASTIC	√			1				DSM
DUCT VIBRATION DAMPENERS	√		√	1 or RACM				DVD
EXTERIOR (OUTSIDE) DUCT INSULATION	√		√	RACM				EDI
FELT DUCT TAPE			√	RACM				FDT
FLOOR MASTIC	√			1				FM
FIREPROOFING			√	RACM				FP
FIREPROOFING AND OVERSPRAY			√	RACM				FPO
FLOOR TILE	√			1 or RACM				FT
FLOOR TILE AND MASTIC	√			1 or RACM				FTM
INTERIOR (INSIDE) DUCT INSULATION	√		√	RACM				IDI
JOINT COMPOUND ONLY			√	RACM				JC
LIGHT WEIGHT CONCRETE		√	√	RACM				LWC
OTHER: FLOOR LEVELING COMPOUND, CAULKING, ETC.		√	√	2 or RACM				OTR
PIPE INSULATION STRAIGHT RUNS			√	RACM				PI
PIPE INSULATION ELBOWS AND FITTINGS			√	RACM				PIE
RESILIENT FLOOR COVERINGS (SHEET FLOORING; LINOLEUM)	√		√	1 or RACM				RFC
ROOF MASTICS AND COATINGS	√		√	1				RMC
ROOFING SILVER COATING	√			1 or RACM				RSC
TEXTURED CEILING			√	RACM				TC
TEXTURED CEILING PLASTER			√	RACM				TCP
TANK INSULATION			√	RACM				TI
WALL BOARD AND JOINT COMPOUND			√	RACM				WBJC
WINDOW GLAZING	√		√	1 or RACM				WG
WALL PLASTER			√	RACM				WP
Row G: Enter the ACM Type Codes from Col. G for each Category Below. Category 1: _____ Category 2: _____ RACM: _____					Category 1 Total	Category 2 Total	RACM Total	

CALCULATING FEES

Row H. IS THIS A RESIDENTIAL PROJECT <input type="checkbox"/> YES (USE TOTAL FROM COLUMN F (RACM) TO COMPLETE THIS SECTION)			
RESIDENTIAL FEE SCHEDULE: \$0.10 PER LF/SF OF FRIABLE ACM WITH MINIMUM FEE: \$25 - MAXIMUM FEE: \$50 PER RESIDENCE/ DWELLING UNIT.	RESIDENTIAL PROJECT COLUMN F (RACM) TOTAL H (A). _____ SF/LF	X \$0.10 EQUALS	TOTAL FEES DUE AND PAYABLE NOW H (B) \$ _____ (NOT TO BE LESS THAN \$25 OR MORE THAN \$50 PER UNIT)
Row I. IS THIS A NON-RESIDENTIAL PROJECT <input type="checkbox"/> YES (USE TOTAL FROM COLUMN F (RACM) TO COMPLETE THIS SECTION)			
NON-RESIDENTIAL FEE SCHEDULE: \$0.10 PER LF/SF OF FRIABLE ACM WITH MINIMUM FEE: \$25 - MAXIMUM FEE: \$1,000 PER FACILITY.	NON-RESIDENTIAL PROJECT COLUMN F (RACM) TOTAL I (A). _____ SF/LF	X \$0.10 EQUALS	TOTAL FEES DUE AND PAYABLE NOW I (B) \$ _____ (NOT TO BE LESS THAN \$25 OR MORE THAN \$1,000)

CHECK NUMBER _____ FOR THE AMOUNT SHOWN IN THE TOTAL FEES DUE ABOVE.

SECTION 7 - WASTE TRANSPORTER, DISPOSAL SITE, AND BUILDING OWNER INFORMATION				
<input type="checkbox"/> CHECK IF SECTION REVISED				
WASTE TRANSPORTER NAME			TRANSPORTER CONTACT PERSON:	
TRANSPORTER'S MAILING ADDRESS:				
CITY:	STATE:	ZIP:	PHONE:	FAX:
All Detached Non-Friable and Friable ACM Must Go To an ACM Permitted Landfill.				
DISPOSAL SITE NAME:			DISPOSAL SITE COUNTY:	
DISPOSAL SITE ADDRESS:				
CITY:	STATE:	ZIP:	PHONE:	FAX:
PROJECT OWNER NAME:			OWNER'S REPRESENTATIVE:	
OWNER'S STREET ADDRESS:				
OWNER'S MAILING ADDRESS (IF DIFFERENT):				
CITY:	STATE:	ZIP:	PHONE:	FAX:
SECTION 8 - WORK METHODS: METHOD OF DEMOLITION AND/OR RENOVATION ACTIVITY (DESCRIPTION OF WORK PRACTICES, ENGINEERING CONTROLS, AND CLEARANCE METHODS)				
<input type="checkbox"/> CHECK IF SECTION REVISED				
SECTION 9 - ADDITIONAL PROJECT INFORMATION				
<input type="checkbox"/> CHECK IF SECTION REVISED				
WILL ASBESTOS REMAIN IN THE PROJECT AREA? <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> UNKNOWN				
EXPLAIN 'YES' OR 'UNKNOWN':				
IF NO ASBESTOS IS PRESENT, WAS THIS PROJECT PREVIOUSLY ABATED? <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> UNKNOWN				
PRIOR ABATEMENT COMPANY:			YEAR ABATED:	
PRIOR COMPANY CONTACT PERSON:			PHONE:	
CERTIFICATION OF INFORMATION AND ACKNOWLEDGEMENT				
<input type="checkbox"/> CHECK IF SECTION REVISED				
I, THE UNDERSIGNED, CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF FEDERAL REGULATIONS (NESHAP/40 CFR PART 61 SUBPART M) WILL BE ON THE PROJECT SITE DURING DEMOLITION AND/OR RENOVATION ACTIVITIES DESCRIBED IN THE NOTIFICATION. EVIDENCE THAT THIS PERSON AND ALL OTHER PROJECT PERSONNEL HAVE ACCOMPLISHED APPROPRIATE TRAINING AND TRAINING CERTIFICATES WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS AND ANYTIME REGULATED ACTIVITIES ARE BEING CONDUCTED ON SITE.				
I FURTHERMORE UNDERSTAND THAT I AM RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SUBMITTED WITH THIS NOTIFICATION AND I SHALL PROMPTLY SUBMIT REVISIONS, SUPPORTING DOCUMENTS, AND PROJECT FEES.				
PRINTED NAME:			PHONE:	
SIGNATURE:			DATE:	
REPRESENTING: <input type="checkbox"/> OWNER <input type="checkbox"/> ABATEMENT CONTRACTOR <input type="checkbox"/> DEMOLITION CONTRACTOR <input type="checkbox"/> OTHER _____				
COMPANY NAME IF "OTHER" CHECKED:			ADDRESS IF "OTHER" CHECKED:	
<ul style="list-style-type: none"> • REFER TO THE DETAILED INSTRUCTIONS WHEN IN DOUBT ABOUT PROPER COMPLETION OF ANY SECTION. • NEVER LEAVE BLANK SPACES – INSERT 'N/A' OR 'UNKNOWN' FOR ANY BLANK WHERE YOU DO NOT HAVE THE INFORMATION REQUESTED. • PRINT RESPONSES NEATLY AND LEGIBLY. • ALWAYS KEEP A COPY OF THIS FORM FOR YOUR RECORDS, AND PROVIDE COPIES TO ALL OTHER INVOLVED PARTIES. • EPD NO LONGER ACCEPTS 'FAX ONLY DOCUMENTS'. SUBMIT THE ENTIRE FORM VIA MAIL. • NEVER SUBMIT PROJECTS WHERE FEES ARE DUE WITHOUT ATTACHING THE REQUIRED FEE CHECK OR MONEY ORDER. • NOTIFICATIONS WITH FEES MUST BE MAILED TO THE EPD ASBESTOS FEES POST OFFICE ADDRESS. • NOTIFICATIONS WITHOUT FEES SHOULD BE MAILED DIRECTLY TO THE EPD OFFICE ADDRESS. • (ADDRESSES ARE ON THE FIRST PAGE.) • DO NOT SUBMIT 'TWO-SIDED' PHOTO COPIES. • If a Project Notification is submitted by someone other than the asbestos abatement or demolition contractor - such as the Consultant or Owner, A REVISED NOTIFICATION MUST BE SUBMITTED BY THE CONTRACTOR TO WHOM THE PROJECT IS AWARDED BEFORE WORK BEGINS. THE CONTRACTOR MUST SIGN THE CERTIFICATION OF THE REVISED NOTIFICATION FORM. <p style="text-align:center;">IT IS YOUR RESPONSIBILITY TO SUBMIT THIS FORM ACCURATELY AND COMPLETELY AND INCLUDE BY ALL APPLICABLE FEES.</p>				

**SUMMARY INSTRUCTIONS FOR COMPLETING THE GEORGIA EPD
PROJECT NOTIFICATION FOR ASBESTOS RENOVATION, ENCAPSULATION, OR DEMOLITION PROJECTS**

Complete the following Sections and provide the information requested according to the type of project being performed.

To Be Completed For Demolition Work (No fees due for Demolition Projects.)

Section 1A Type of Notice

Section 1B Type of Project

Section 2 - Site Information

Section 3B - Demolition Contractor

Section 4 - ACM Information Asbestos Inspection Required for Compliance of Georgia Rules.

Section 5 - Work Schedules for Demolition

Section 6 - ACM Amounts & Type Codes

- All ACM which already is or will become friable must be removed before demolition; only non-friable ACM may be remaining during the demolition and it must **ALL** be collected, packaged, labeled, transported and disposed as ACM Waste).
- If all ACMs have been removed from the project site, Page 2 is not required.

Section 7 - Waste Transporter and Disposal Site of Demolition Waste, and Building Owner (All Required)

Section 8 - Work Methods

Section 9 - Additional Project Information

Certification of Information and Acknowledgment

(No fees due for Demolition Projects.)

To Be Completed For Asbestos Removal and Encapsulation Projects (Fees due for Abatement Projects.)

Section 1A - Type of Notice

Section 1B - Type of Project

Section 2 - Site information

Section 3A - Abatement Contractor

Section 4 - ACM Information Asbestos Inspection Required for Compliance of Georgia Rules.

Section 5 - Work Schedules for Abatement and Encapsulation Projects.

Section 6 - ACM Amounts, Type Codes, and Fee Calculation

Section 7 - Waste Transporter, Disposal Site, and Building Owner Information

Section 8 - Work Methods

Certification of Information and Acknowledgment

To Be Completed for A Revision To A Prior Notification

Section 1A Type of Notice

Section(s) *All Sections, In Which the Prior Information Has Changed or Needs To Be Updated.*

- *Check the Revision Box In Each of The Revised Sections and Update the Information.*

Certification of Information and Acknowledgment

DETAILED INSTRUCTIONS ARE AVAILABLE FOR FILLING OUT EACH OF THESE SECTIONS.

**DETAILED INSTRUCTIONS FOR COMPLETING THE GEORGIA EPD
PROJECT NOTIFICATION FOR ASBESTOS RENOVATION, ENCAPSULATION, OR DEMOLITION PROJECTS**

The Georgia EPD realizes that paperwork completion is tedious and time-consuming, but treats paperwork infractions with the same gravity with which it views work practice violations. It is incumbent upon all individuals engaged in regulated asbestos-related activities to become familiar with all state and federal requirements, including proper paperwork completion. The following instructions are a step-by-step guide that should lead you successfully through the notification completion process. Should you still have questions or need assistance with completion of the notification documents, please call the Asbestos Program at (404) 363-7026.

HOW SHOULD YOU SUBMIT YOUR NOTIFICATION?

<p align="center">FOR PROJECTS WHERE FEES ARE DUE: EPD ASBESTOS FEES LOCKBOX POST OFFICE BOX 101173 ATLANTA, GEORGIA 30392 (SEE SECTION 6 FOR FEE CALCULATION INSTRUCTIONS)</p>	<p align="center">FOR PROJECTS WHERE FEES ARE NOT DUE: EPD ASBESTOS PROGRAM ATTN: ASBESTOS NOTIFICATIONS 4244 INTERNATIONAL PARKWAY, SUITE 104 ATLANTA, GEORGIA 30354</p>
--	--

MAILED FORMS: If your notification is a courtesy notification (see explanation below); a demolition only notification (the only two types of projects that are fee exempt); or a revision of a previously submitted notification where the fee amount **does not** change (a date change revision, for example), send the form directly to the EPD office at the address shown on the right above (not the lockbox address).

WHAT TYPE OF NOTICE SHOULD YOU SUBMIT? (SECTION 1A)

Asbestos Project Notifications will always fall into one of the following categories. **ALWAYS** check the box (☐) applicable to your current submittal:

- ☐ **ORIGINAL INITIAL** - The first time a project notification is submitted for the project to which the notification applies.

- ☐ **REVISION** – To notify the EPD of any changes to the project after the Original Initial notification has been submitted. To submit a revision, CHECK THE BOX (☐) in Section 1A and list the revision number. Also check the box in the heading of the section you are revising, strike through the incorrect information, and insert the correction. If additional fees are due, be sure to submit them to the lockbox and include the additional fee check information in the fee schedule. **DATE CHANGE REVISIONS SHOULD BE SENT DIRECTLY TO THE EPD OFFICE STREET ADDRESS.** For all revisions, re-sign and re-date the certification section of the project notification before resubmitting.

WHAT TYPE OF PROJECT ARE YOU CONDUCTING? (SECTION 1B)

- ☐ **RENOVATION/ABATEMENT ONLY** – Where the project only involves the removal and disposal of asbestos containing materials. "Renovation" means the altering of, taking out, stripping, clean up, disposal of, or removal of friable or potentially friable asbestos containing materials from any facility, facility component or residential dwelling, equal to or greater than 10 square feet or 10 linear feet.
- ☐ **RENOVATION/ABATEMENT PRIOR TO DEMOLITION** - Removal/abatement of friable asbestos containing materials equal to or greater than 10 square feet or 10 linear feet in preparation for demolition activities to be performed by someone else.
- ☐ **DEMOLITION ONLY** – Where the project only entails demolition of any structure that has been thoroughly inspected for the presence or absence of asbestos. "Demolition" means the wrecking or taking out of any load supporting structural member of a facility together with related handling operations, or the intentional burning of any structure. **Notification is required regardless of the presence or absence of asbestos containing materials.**
- ☐ **ENCAPSULATION** – A project in which special coatings approved for asbestos encapsulation will be used to cover the asbestos containing materials and prevent release of asbestos fibers. 'Encapsulation' means the process of coating, binding, or resurfacing walls, ceilings, pipes, or other structures with a sealant to prevent friable asbestos from becoming airborne.
- ☐ **JOINT RENOVATION/DEMOLITION** – Where both renovation and demolition activities as described above will be conducted by the same Contractor. If demolition is to be conducted by a different company, that company must submit a separate notification.
- ☐ **ORDERED DEMOLITION** – A demolition project ordered by a government agency. If the property has been condemned, the Order of Condemnation must be included with the project notification.

ADDITIONAL PROJECT NOTATIONS

- ☐ **EMERGENCY** – Abatement, Encapsulation or Demolition projects that were unplanned, but result from a sudden, unexpected event that if not immediately attended to presents a safety or public health hazard, is necessary to protect equipment from damage, or is necessary to avoid imposing an unreasonable financial burden. Waiver of the required 10 working day notification period will be granted on a case-by-case basis. A letter of explanation regarding the emergency situation from the Owner of the Project, or their representative, must accompany the notification. EPD must be notified of the emergency situation within 24 hours from the time of its occurrence, or from the time you are contacted with a request for emergency work to be performed. Please call the EPD Asbestos Program's Duty Officer to discuss the situation and obtain their agreement on the emergency project. The main number for the Asbestos Program is 404-363-7026. The original notification, letter of explanation, and fee payment must be mailed to the Lockbox address within 7 days from the date of emergency work beginning.
- ☐ **COURTESY** – A Courtesy Notification is **ONLY** submitted for small asbestos abatement/disturbance/encapsulation projects that involve friable asbestos removal of less than 10 square feet or 10 linear feet or for notification of non-friable asbestos removal projects.

SECTION 2 – SITE INFORMATION

PROJECT NAME - Identify the exact location where abatement or demolition work is going to take place. Provide the name of the building, company, or other description of all structures involved in the project here. For example: "Vacant House", "Residence", "Commercial Bldg", "ABC Company", "Office Bldg"). If the project is part of a DOT road-widening project, please include parcel number and structure number.

PROJECT ADDRESS - Street address where abatement, encapsulation, or demolition will take place.
 *If project involves multiple buildings/structures at one location, list all addresses, building names, unit numbers, etc. Use a separate sheet of paper as an attachment, if necessary.
 *If project involves multiple buildings/structures at different addresses, you may group together those addresses on the same street and/or adjacent streets, (within a few block radius). Use a separate sheet of paper as an attachment, if necessary. Include a site map or diagram showing locations.

- **CITY/ZIP/COUNTY** - Complete all areas. **YOU MUST LIST THE COUNTY.**
- **NEAREST MAJOR INTERSECTION** - For example: "State Hwy 41 near Windy Hill Rd"; "South Houston Lake Rd near State Hwy 96")
- **BLDG SIZE IN SQ. FEET** - Square foot measurement of the entire building (all floors and spaces) combined.
- **AGE OF BLDG IN YEARS** - Age of building in years.
- **NUMBER OF FLOORS IN BUILDING** - Total number of floors in building, including sub-basement, basement, mezzanine, attic, and penthouse. Each level that can be occupied should be counted as a separate floor.
- **SPECIFIC LOCATION OF ASBESTOS BEING REMOVED** - Provide specific area(s) of the structure that are being abated or demolished. For example: "Roof", "Kitchen Floor", "Steam Pipes in Basement", "Throughout Building", "Hallway", "Floor Number _____", "Room Number _____", etc).

SECTION 3 – PROJECT CONTRACTORS

3A – ABATEMENT CONTRACTOR – Name of the company that will perform the asbestos renovation/abatement.

- **CONTRACTOR STREET ADDRESS** – The actual physical location of the Asbestos Removal Contractor's place of business. **DO NOT USE A POST OFFICE BOX IN THIS SPACE!**
- **COMPANY CERTIFICATE NUMBER** – The number issued on the contractor company certificate by the Georgia Lead-Based Paint and Asbestos Program.
- **CITY/STATE/ZIP/PHONE/FAX** – You must complete each space.
- **LICENSED AGENTS NAME** – Name of the person licensed by EPD as the Principal Agent for this company
- **AGENT'S ID NUMBER** – The agent's number issued by EPD. Example: "50123"
- **EXPIRES** – The date on which the agent's certificate expires.
- **CELL PHONE** – The cellular or pager number for the Principal Agent.

3B – DEMOLITION CONTRACTOR – Name of company performing work OTHER THAN asbestos removal.

- **DEMOLITION CONTRACTOR'S STREET ADDRESS** – The actual physical location of this Contractor's place of business. **DO NOT USE A POST OFFICE BOX IN THIS SPACE!**
- **CITY/STATE/ZIP/PHONE/FAX** – You must complete each blank.
(If more than 2 Contractors are involved with the project, use a separate sheet as an attachment to provide additional information)

SECTION 4 – ASBESTOS CONTAINING MATERIAL(S) (ACM) INFORMATION

IS ASBESTOS PRESENT?

- **YES** – A thorough inspection for the presence of asbestos has been conducted and the written results indicate that asbestos **IS** present.
- **NO** – A thorough inspection for the presence of asbestos has been conducted and the written results indicate that asbestos **IS NOT** present.
- **UNKNOWN** – It is unknown if an asbestos inspection has been performed, or an inspection has been performed but the results are unknown at this time.
- **FRIABLE** – "Friable Asbestos-Containing Material" means any material containing more than 1 percent asbestos, by weight, and which when dry may be crumbled, pulverized, or reduced to powder by hand pressure or non-friable material that will be subjected to sanding, grinding, abrading or crushing.
- **NON-FRIABLE** – "Non-Friable Asbestos-Containing Material" means any asbestos-containing material that does not meet the definition of "FRIABLE".
- **BOTH** – Both "Friable" and "Non-friable" materials are present on this project.

DID AN AHERA ACCREDITED INSPECTOR INSPECT THIS SITE?

Was the portion of the abatement project, or demolition area described in Section 2 of this form, thoroughly inspected by an AHERA Accredited Asbestos Inspector? Check the appropriate answer

- **YES**
- **NO**
- **UNKNOWN**
- **ASSUMED ASBESTOS** - A thorough inspection for the presence of asbestos HAS NOT been conducted but based on the type of material(s) being disturbed, the decision has been made to treat the material(s) as ACM.
- **INSPECTOR NAME** – Name of individual who performed the inspection.
- **INSPECTOR PHONE** – Number at which the Inspector may be reached, starting with area code.
- **ACCREDITATION COURSE** – Name of course taken to obtain **ASBESTOS INSPECTOR** accreditation. For example: "Asbestos Inspector Initial (AI)" OR "Inspector Refresher (AIR)"
- **CERTIFICATE NUMBER** – Number on the Asbestos Inspector Certificate of Course Completion issued by the Training Provider.
- **EXPIRES** – Expiration date on certificate issued by Training Provider.

SECTION 5 – WORK SCHEDULES

IMPORTANT NOTICE: A 10 (TEN) WORKING DAY NOTIFICATION IS REQUIRED PRIOR TO COMMENCING ANY REGULATED ASBESTOS ACTIVITY. (Exception: Valid Emergency Projects)

WORKING DAYS ARE CONSIDERED MONDAY THROUGH FRIDAY. A HOLIDAY FALLING ON THESE DAYS WILL BE COUNTED AS A WORKING DAY. WORKING DAYS ARE COUNTED FROM THE DATE OF:

- US POST OFFICE POSTMARK DATE
- FEDEX/UPS SHIPPING DATE
- ELECTRONIC FILING OF PROJECT NOTIFICATION

NOTIFICATIONS POSTMARKED ON A SATURDAY OR SUNDAY DO NOT BEGIN THE 10 WORKING DAY NOTIFICATION PERIOD UNTIL THE FOLLOWING MONDAY.

FOR ALL PROJECTS

Provide the project START date and END dates. NOTE: If the Consultant or Project Owner is submitting the project notification, and project dates are as yet undetermined, submit dates as **TBD** (To Be Determined). THE ABATEMENT OR DEMOLITION CONTRACTOR WHO RECEIVES THE CONTRACT MUST SUBMIT A REVISION TO UPDATE THE PROJECT DATES BEFORE WORK BEGINS.

WORK DAYS - Provide actual days of the week on which work will be performed – NOT the number of days worked per week. For example: “M, Tu, Th” or “M-F”

WORK HOURS - Provide the actual times of the day the crew will be on site – NOT the number of hours worked per day. For example “7A – 4P” or “5P – MIDNIGHT”

PHASED PROJECTS - If multiple buildings/structures are involved, break project into Phases, and identify project dates per Phase. Use an additional page to described phased project start and stop dates and work hours in detail.

SECTION 6 – ACM TYPES INFORMATION AND FEE SCHEDULE

Use this section to identify the type and total quantity of asbestos that will be disturbed during this project and calculate fees owed based on your findings. All ACM's identified in Section 4 must be described completely here.

ACM TYPE(S)

- Step 1 - Locate the type of ACM you will be disturbing in COLUMN A. Use the Category 1, 2 and RACM headings in COLUMN B to determine the material's current status, then locate the category the material will **MOST LIKELY BECOME** as a result of your abatement activities in COLUMN C.
- Step 2 - Show the combined LINEAR FOOT (LF) and/or SQUARE FOOTAGE (SF) of the material to be disturbed in COLUMN D, E, or F, depending on the determination made from the code in COLUMN C
- Step 3 - In COLUMN G, circle the corresponding ACM type code for any material amount listed in COLUMN(S) D, E, or F. In ROW G2, enter the type code(s) in the space(s) labeled CAT 1, CAT 2, and RACM.
- Step 4 – Total COLUMNS D, E, and F and insert the total(s) in the appropriate space(s) provided.

DEFINITIONS:

CATEGORY 1 NON-FRIABLE ACM includes asbestos-containing packing, gaskets, resilient floor covering, mastics, and asphalt roof products that contain greater than 1% asbestos. Category 1 materials that will likely become friable as a result of removal activity must be listed in the RACM category.

CATEGORY 2 NON-FRIABLE ACM includes any asbestos-containing material, excluding Category 1 non-friable ACM, These are primarily the asbestos-cement products. Category 2 materials that will likely become friable as a result of removal activity must be listed in the RACM category.

RACM (Regulated Asbestos-Containing Material) means friable asbestos containing material, Category 1 non-friable ACM that has become friable, Category 1 non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or Category 2 non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations

FEE CALCULATION SECTION

Step 1 - Use the check box to indicate whether the project is RESIDENTIAL (ROW H.) or NON-RESIDENTIAL (ROW I.).

Step 2 - Place the total from COLUMN F on the correct line provided in either “BOX H (A). – RESIDENTIAL” or “BOX I (A) – NON-RESIDENTIAL”.

Step 3 – Multiply the number in BOX H (A) or I (A) by \$0.10 (Ten Cents - 10¢) and place the resulting amount in line H (B) or I (B)

MINIMUM AND MAXIMUM FEES:

RESIDENTIAL PROJECTS: Residential projects are subject to a minimum fee of \$25 and a maximum fee of \$50 per dwelling unit.

NON-RESIDENTIAL PROJECTS: Non-residential projects are subject to a minimum fee of \$25 and a maximum fee of \$1,000.

DEFINITIONS:

RESIDENTIAL PROJECT: A residential dwelling means any family residence or apartment building with four or fewer dwelling units.

NON-RESIDENTIAL PROJECT: A non-residential project means any project conducted on any building that would fall outside the guidelines established by the definition of a residential dwelling. I.E.: any non-residential structure, or any residential structure with five or more dwelling units.

IF FEES ARE DUE FOR ANY PROJECT, SHOW THE CHECK NUMBER IN THE SPACE PROVIDED.

SECTION 7 – BUILDING OWNER, WASTE TRANSPORTER, AND DISPOSAL SITE INFORMATION

WASTE TRANSPORTER: Complete all areas

- NAME OF COMPANY
- CONTACT NAME: Name of person at Transport Company to call, if necessary.
- ADDRESS/CITY/STATE/ZIP/PHONE/FAX

DISPOSAL SITE INFORMATION

- WASTE DISPOSAL SITE NAME: Name of Landfill.
- DISPOSAL SITE COUNTY: Provide County name.
- ADDRESS/CITY/STATE/ZIP/PHONE/FAX: Complete all areas.

BUILDING OWNER

- OWNER OF PROJECT SITE/FACILITY: Name of legal owner of facility/property.
- OWNER'S REPRESENTATIVE: Name of person (other than Contractor) acting on behalf of Owner, particularly if completing & submitting this form.
- OWNER'S STREET ADDRESS: For service of legal process if required.
- OWNER'S MAILING ADDRESS if different than the street address.
- CITY/STATE/ZIP/PHONE/FAX Complete all areas.
- TELEPHONE NUMBER: Number at which Contact person may be reached, starting with area code.

SECTION 8 – WORK METHODS

Enter the method(s) of demolition and/or renovation activity and a description of work practices and engineering controls to be used on this project. Describe fully what types of abatement and/or demolition activities are going to take place, the method(s) of removal and/or demolition that will be used, and controls in place to prevent asbestos emissions. Attach a separate sheet of paper if more room is needed to answer this section.

FOR EXAMPLE:

- "Wet spud bar and chemical removal of FT M with critical barriers. 1 negative air. Visual clearance only";
- "Wet spud bar removal of ACS over 6 mil plastic on ground. Place in plastic lined roll of dumpster. Visual clearance only"
- "Demo with front-end loader. Push down, wet, and machine load into 30 CY roll of dumpster"

SECTION 9 - ADDITIONAL PROJECT INFORMATION

- WILL ASBESTOS REMAIN IN THE PROJECT AREA? Please answer "YES", "NO", or "UNKNOWN", and explain a YES or UNKNOWN answer.
- IF NO ASBESTOS IS PRESENT, WAS THIS THE RESULT OF A PREVIOUS ABATEMENT?
- IF THE PROJECT WAS PREVIOUSLY ABATED, PROVIDE ALL REQUESTED INFORMATION FOR THE PRIOR ABATEMENT COMPANY.

CERTIFICATION OF INFORMATION AND ACKNOWLEDGEMENT

PROVIDE ALL REQUESTED INFORMATION - DO NOT LEAVE ANY SPACES BLANK AND INCLUDE SIGNATURE

PRINTED NAME - Print or type full name of person submitting form.

PHONE: Phone number of the person submitting the Project Notification.

SIGNATURE - The person submitting this form must submit with their signature.

DATE - Date project notification is signed

REPRESENTING - Check the appropriate title:

- OWNER - Owner of Facility in which project is being performed
- ABATEMENT CONTRACTOR – A Georgia Licensed Asbestos Abatement Contractor
- DEMOLITION CONTRACTOR – Demolition Contractor
- OTHER CONTRACTOR – A contractor representing another trade involved on the project. For example: "General Contractor," "Sub Contractor," or "Consultant."

COMPANY NAME: Name of company submitting the Project Notification.

ADDRESS: Complete the mailing address including street, city, state and zip code.

NOTE: If a Project Notification is submitted by someone other than the asbestos abatement or demolition contractor - such as the Consultant or Owner - in order to start the 10 working day notification period while the contract is out for bid, A REVISED NOTIFICATION MUST BE SUBMITTED BY THE CONTRACTOR TO WHOM THE PROJECT IS AWARDED BEFORE WORK BEGINS. THE CONTRACTOR MUST SIGN THE CERTIFICATION AREA OF THE REVISED NOTIFICATION FORM.

APPENDIX D

ASBESTOS SURVEY SAMPLE SUMMARY

APPENDIX D

**ASBESTOS SURVEY SAMPLE SUMMARY
FORMER GEORGIA STATE FARMERS MARKET
318 10TH AVENUE
COLUMBUS, MUSCOGEE COUNTY, GEORGIA
TERRACON PROJECT NO. E2177122**

Warehouse #1 (Building 1)				
HA	Sample No.	Description	Sample Location	Asbestos Content
1-1	1	12 X 12 Brown VCT	Office Area, Hallway	5% C – VCT 3% C – Black Mastic
	2	12 X 12 Brown VCT	Office Area, Closet	4% C – VCT 5% C – Black Mastic
1-2	3	12x12 White VCT	Office Area, Back Room	ND – VCT 3% C – Black/Yellow Mastic
	4	12x12 White VCT	Office Area, Back Room	ND – VCT 3% C – Black/Yellow Mastic
1-3	5	Ceiling Tile w/ Fissures & Pinholes	Office Area	ND – Ceiling Tile
	6	Ceiling Tile w/ Fissures & Pinholes	Office Area	ND – Ceiling Tile
1-4	7	Ceiling Tile w/ Pinholes	Office Area	ND – Ceiling Tile
	8	Ceiling Tile w/ Pinholes	Office Area	ND – Ceiling Tile
1-5	9	Pipe Wrap (Over Fiberglass Insulation)	Warehouse Area	ND – Pipe Wrap
	10	Pipe Wrap (Over Fiberglass Insulation)	Warehouse Area	ND – Pipe Wrap
1-6	11	Ceramic Wall Tile Mortar	Office Area Bathroom	<1% C - Mortar
	12	Ceramic Wall Tile Mortar	Office Area Bathroom	ND - Mortar
1-7	16	Ceramic Floor Tile Mortar	Office Area Bathroom	ND - Mortar
	17	Ceramic Floor Tile Mortar	Office Area Bathroom	ND - Mortar
1-8	19	Plaster Wall	Office Area	ND – Plaster ND - Texture
	20	Plaster Wall	Office Area	ND – Plaster ND - Texture
	21	Plaster Wall	Office Area	ND – Plaster ND - Texture

HA= Homogeneous Area

ND = None Detected

C = Chrysotile

VCT = Vinyl-composite Tile

Bold font indicates asbestos-containing material

Warehouse #1 (Building 1)				
HA	Sample No.	Description	Sample Location	Asbestos Content
1-8	22	Plaster Wall	Office Area	ND – Skim Coat ND - Base Coat ND - Texture
	23	Plaster Wall	Office Area	ND – Skim Coat ND - Base Coat ND - Texture
1-9	24	Drywall & Joint Compound	Warehouse Area, Vendor Bay 1	ND – Drywall ND – Joint Compound
	25	Drywall & Joint Compound	Warehouse Area, Vendor Bay 2	ND – Drywall ND – Joint Compound
	26	Drywall & Joint Compound	Warehouse Area, Vendor Bay 3	ND – Drywall ND – Joint Compound
	27	Drywall & Joint Compound	Warehouse Area, Vendor Bay 4	ND – Drywall ND – Joint Compound
	28	Drywall & Joint Compound	Warehouse Area, Vendor Bay 5	ND – Drywall ND – Joint Compound
	29	Drywall & Joint Compound	Warehouse Area, Vendor Bay 6	ND – Drywall ND – Joint Compound
	30	Drywall & Joint Compound	Warehouse Area, Vendor Bay 7	ND – Drywall ND – Joint Compound
1-10	31	12 X 12 Brown VCT (Under Carpeting)	Office Area	5% C – VCT 4% C – Black Mastic ND – Yellow Mastic
	32	12 X 12 Brown VCT (Under Carpeting)	Office Area	5% C – VCT 4% C – Black Mastic ND – Yellow Mastic
1-11	33	Insulation Wall Panels	Warehouse Area, Walk-in Cold Storage Unit	4% C – Insulation Panels
	34	Insulation Wall Panels	Warehouse Area, Walk-in Cold Storage Unit	4% C – Insulation Panels
1-12	35	Exterior Window Caulk	Office Area	ND - Caulking
	36	Exterior Window Caulk	Office Area	ND - Caulking
1-13	37	Exterior Door Caulk	Office Area	4% C - Caulking
	38	Exterior Door Caulk	Office Area	4% C - Caulking

HA= Homogeneous Area

ND = None Detected

C = Chrysotile

VCT = Vinyl-composite Tile

Bold font indicates asbestos-containing material

Warehouse #2 (Building 2)				
HA	Sample No.	Description	Sample Location	Asbestos Content
2-1	1	Ceiling Tile	Bathrooms	ND – Ceiling Tile
	2	Ceiling Tile	Bathrooms	ND – Ceiling Tile
2-2 ¹	3	Insulation Wall Panels	Walk-in Cold Storage Unit	2% C – Insulation Panels
	4	Insulation Wall Panels	Walk-in Cold Storage Unit	2% C – Insulation Panels
2-3	5	Ceramic Wall Tile Mortar	Bathrooms	3% C - Mortar
	6	Ceramic Wall Tile Mortar	Bathrooms	3% C - Mortar
2-4	8	Ceramic Floor Tile Mortar	Bathrooms	ND - Mortar
	9	Ceramic Floor Tile Mortar	Bathrooms	ND – Mortar
2-5	10	Carpet Glue	Vendor Area 1, Office	ND - Glue
	11	Carpet Glue	Vendor Area 1, Office	ND - Glue
2-6	12	Carpet Glue	Vendor Area 2, Office	ND - Glue
	13	Carpet Glue	Vendor Area 2, Office	ND - Glue
2-7	14	12x12 VCT	Vendor Area 2, Office	ND - VCT
	15	12x12 VCT	Vendor Area 2, Office	ND - VCT
2-8	16	Drywall & Joint Compound	Vendor Area 2, Office	ND – Drywall ND – Joint Compound
	17	Drywall & Joint Compound	Vendor Area 2, Office	ND – Drywall ND – Joint Compound
2-9	18	Applied Ceiling Texture	Vendor Area 2, Office	ND - Texture
	19	Applied Ceiling Texture	Vendor Area 2, Office	ND - Texture
	20	Applied Ceiling Texture	Vendor Area 2, Office	ND - Texture

HA= Homogeneous Area

ND = None Detected

C = Chrysotile

VCT = Vinyl-composite Tile

Bold font indicates asbestos-containing material

¹ HA incorrectly identified in laboratory analytical report as being collected from bathrooms

Warehouse #3 (Building 3)				
HA	Sample No.	Description	Sample Location	Asbestos Content
3-1	1	Pipe Wrap (Over Fiberglass Insulation)	Vendor Area 1	ND – Pipe Wrap
	2	Pipe Wrap (Over Fiberglass Insulation)	Vendor Area 1	ND – Pipe Wrap
3-2	3	Ceramic Wall Tile Mortar	Bathroom, Vendor Area 1	2% C - Mortar
	4	Ceramic Wall Tile Mortar	Bathroom, Vendor Area 1	2% C - Mortar
3-3	8	Ceramic Floor Tile Mortar	Bathroom, Vendor Area 1	ND - Mortar
	9	Ceramic Floor Tile Mortar	Bathroom, Vendor Area 1	ND - Mortar
3-4	10	Insulation Wall Panels	Walk-in Cold Storage Unit	2% C – Insulation Panels
	11	Insulation Wall Panels	Walk-in Cold Storage Unit	2% C – Insulation Panels
3-5	12	Inset Ceiling Tiles	Office, Vendor Area 2	ND – Ceiling Tile
	13	Inset Ceiling Tiles	Office, Vendor Area 2	ND – Ceiling Tile
3-6	14	2x2 Ceiling Tile	Office, Vendor Area 3	10% A – Ceiling Tile 2% C – Ceiling Tile
	15	2x2 Ceiling Tile	Office, Vendor Area 3	10% A – Ceiling Tile 2% C – Ceiling Tile
3-7	16	Drywall & Joint Compound	Office, Vendor Area 3	ND – Drywall ND – Joint Compound
	17	Drywall & Joint Compound	Office, Vendor Area 3	ND – Drywall ND – Joint Compound
3-8	18	Cove Base Glue	Office, Vendor Area 2	ND - Glue
	19	Cove Base Glue	Office, Vendor Area 2	ND - Glue
3-9	20	Brick-Pattern Sheet Vinyl Flooring	Office, Vendor Area 2	ND – Sheet Vinyl Flooring
	21	Brick-Pattern Sheet Vinyl Flooring	Office, Vendor Area 2	ND – Sheet Vinyl Flooring

HA= Homogeneous Area

ND = None Detected

C = Chrysotile

A = Amosite

Bold font indicates asbestos-containing material

Warehouse #4 (Building 4)				
HA	Sample No.	Description	Sample Location	Asbestos Content
4-1 ²	1	12x12 Blue-Speckled VCT	Office Area	ND – VCT ND – Mastic
	2	12x12 Blue-Speckled VCT	Office Area	ND – VCT ND – Mastic
4-2	3	2 nd Layer VCT Under HA 1	Office Area	ND - VCT
	4	2 nd Layer VCT Under HA 1	Office Area	ND - VCT
4-3	5	12x12 Blue-Speckled VCT w/ Black Mastic	Office Area	ND – VCT 6% C – Tan/Black Mastic
	6	12x12 Blue-Speckled VCT w/ Black Mastic	Office Area	ND – VCT 2% C – Tan/Black Mastic
4-4	7	9x9 VCT	Office Area	4% C – VCT 5% C - Mastic
	8	9x9 VCT	Office Area	10% C – VCT 5% C - Mastic
4-5	9	Carpet Glue	Office Area	<1% C – Black/Yellow Mastic
	10	Carpet Glue	Office Area	<1% C – Black/Yellow Mastic
4-6	11	Cove Base Glue	Office Area	ND - Glue
	12	Cove Base Glue	Office Area	ND - Glue
4-7	13	2x4 Ceiling Tile	Office Area	ND – Ceiling Tile
	14	2x4 Ceiling Tile	Office Area	ND – Ceiling Tile
4-8	15	1x1 Ceiling Tile	Office Area	ND – Ceiling Tile
	16	1x1 Ceiling Tile	Office Area	ND – Ceiling Tile
4-9	17	Insulation Wall Panels	Walk-In Cold Storage Unit	3% C – Insulation Panels
	18	Insulation Wall Panels	Walk-In Cold Storage Unit	3% C – Insulation Panels
4-10	19	Mudded Thermal Pipe Insulation	Office Area, 2nd Floor Mech. Room	3% A – Insulation 2% C - Insulation
	20	Mudded Thermal Pipe Insulation	Office Area, 2nd Floor Mech. Room	3% A – Insulation 3% C - Insulation
4-11	21	Pipe Wrap (Over Glass Foam Insulation)	Office Area, 2 nd Floor Mech. Room	ND – Pipe Wrap
	22	Pipe Wrap (Over Glass Foam Insulation)	Office Area, 2 nd Floor Mech. Room	ND – Pipe Wrap

HA= Homogeneous Area

ND = None Detected

C = Chrysotile

A = Amosite

VCT = Vinyl-composite Tile

Bold font indicates asbestos-containing material

² Analytical lab report incorrectly describes VCT mastic as black (mastic was yellow/tan)

Warehouse #4 (Building 4)				
HA	Sample No.	Description	Sample Location	Asbestos Content
4-12	23	HVAC Duct Insulation (Tar Coating on Metal Foil)	Office Area, 2 nd Floor Mech. Room	8-10% C – Tar Coating
	24	HVAC Duct Insulation (Tar Coating on Metal Foil)	Office Area, 2 nd Floor Mech. Room	7% C – Tar Coating
4-13	25	Stair Tread	Office Area	2% C – Stair Tread ND – Yellow Mastic ND – Brown Mastic
	26	Stair Tread	Office Area	2% C – Stair Tread ND – Yellow Mastic ND – Brown Mastic
4-14	27	Exterior Building Caulk	Exterior Brick Wall Joints	ND - Caulking
	28	Exterior Building Caulk	Exterior Brick Wall Joints	ND - Caulking
4-15	29	Ceramic Wall Tile Mortar	Office Area, Bathroom	2% C - Mortar
	30	Ceramic Wall Tile Mortar	Office Area, Bathroom	2% C - Mortar
4-16	31	Ceramic Floor Tile Mortar	Office Area, Bathroom	ND – Mortar ND - Grout
	32	Ceramic Floor Tile Mortar	Office Area, Bathroom	ND – Mortar ND - Grout

HA= Homogeneous Area

ND = None Detected

C = Chrysotile

Bold font indicates asbestos-containing material

Former Columbus Towing & Recovery (Building 5)				
HA	Sample No.	Description	Sample Location	Asbestos Content
5-1	1	Pipe Wrap & Insulation	Storage Room	ND – Pipe Wrap 5% C – Insulation 3% A - Insulation
	2	Pipe Wrap & Insulation	Storage Room	ND – Pipe Wrap 3% C – Insulation 2% A - Insulation
5-2	3	Ceramic Floor Tile Mortar	Bathroom	ND - Mortar
	4	Ceramic Floor Tile Mortar	Bathroom	ND - Mortar
5-3	5	Ceramic Wall Tile Mortar	Bathroom	ND - Mortar
	6	Ceramic Wall Tile Mortar	Bathroom	ND - Mortar

HA= Homogeneous Area

ND = None Detected

C = Chrysotile

A = Amosite

Bold font indicates asbestos-containing material

Loading Area #4 (Building 6)				
HA	Sample No.	Description	Sample Location	Asbestos Content
6-1	1	Ceiling Tile	Bathroom	ND – Ceiling Tile
	2	Ceiling Tile	Bathroom	ND – Ceiling Tile
6-2	3	Ceramic Wall Tile Mortar	Bathroom	2% C - Mortar
	4	Ceramic Wall Tile Mortar	Bathroom	2% C - Mortar
6-3	5	Ceramic Floor Tile Mortar	Bathroom	ND - Mortar
	6	Ceramic Floor Tile Mortar	Bathroom	ND - Mortar

HA= Homogeneous Area

ND = None Detected

C = Chrysotile

Bold font indicates asbestos-containing material

Loading Area #2 (Building 8)				
HA	Sample No.	Description	Sample Location	Asbestos Content
8-1	1	Exterior Stucco	Office Building ³ , West End of Dock	ND - Stucco
	2	Exterior Stucco	Office Building, West End of Dock	ND - Stucco
	3	Exterior Stucco	Office Building, West End of Dock	ND - Stucco
8-2	3	12x12 VCT	Office Building, West End of Dock	ND – VCT ND - Mastic
	4	12x12 VCT	Office Building, West End of Dock	ND – VCT ND - Mastic
8-3	5	Ceiling (Drywall) Board	Office Building, West End of Dock	ND – Ceiling Board ND - Texture
	6	Ceiling (Drywall) Board	Office Building, West End of Dock	ND – Ceiling Board ND - Texture
8-4	7	Cove Base Glue	Office Building, West End of Dock	ND - Glue
	8	Cove Base Glue	Office Building, West End of Dock	ND - Glue

HA= Homogeneous Area

ND = None Detected

VCT = Vinyl-composite Tile

³ Referenced as “Guard Building” in the Chain of Custody

Restaurant (Building 10)				
HA	Sample No.	Description	Sample Location	Asbestos Content
10-1	1	Ceiling Tile w/ Pinholes	Dining Area	ND – Ceiling Tile
	2	Ceiling Tile w/ Pinholes	Dining Area	ND – Ceiling Tile
10-2	3	Ceiling Tile w/ Pinholes & Fissures	Dining Area	ND – Ceiling Tile
	4	Ceiling Tile w/ Pinholes & Fissures	Dining Area	ND – Ceiling Tile
10-3	5	Carpet (Patterned) Glue	Dining Area	ND - Glue
	6	Carpet (Patterned) Glue	Dining Area	ND - Glue
10-4	7	Carpet (Gray) Glue	Side Room	ND - Glue
	8	Carpet (Gray) Glue	Side Room	ND - Glue
10-5	9	Drywall & Joint Compound	Dining Area	ND – Drywall ND – Joint Compound
	10	Drywall & Joint Compound	Dining Area	ND – Drywall ND – Joint Compound
10-6	11	Ceramic Wall Tile Mortar	Bathroom	ND - Mortar
	12	Ceramic Wall Tile Mortar	Bathroom	ND - Mortar
10-7	13	Ceramic Floor Tile Mortar	Bathroom	ND - Mortar
	14	Ceramic Floor Tile Mortar	Bathroom	ND - Mortar
10-8	15	Ceramic Wall Tile Mortar	Kitchen	ND - Mortar
	16	Ceramic Wall Tile Mortar	Kitchen	ND - Mortar
10-9	17	Ceramic Floor Tile Mortar	Entrance	ND - Mortar
	18	Ceramic Floor Tile Mortar	Kitchen	ND - Mortar
10-10	19	Applied Texture on Walls	Dining Area	ND - Texture
	20	Applied Texture on Walls	Dining Area	ND - Texture
	21	Applied Texture on Walls	Entrance Area	ND - Texture
	22	Applied Texture on Walls	Entrance Area	ND - Texture
	23	Applied Texture on Walls	Kitchen	ND - Texture
	24	Applied Texture on Walls	Kitchen	ND - Texture
10-11	25	Applied Texture on Walls	Kitchen	ND - Texture
	26	Exterior Siding	Building Exterior	ND – Siding
	27	Exterior Siding	Building Exterior	ND – Siding

HA= Homogeneous Area

ND = None Detected

APPENDIX E

PAINT CHIP SAMPLE SUMMARY

APPENDIX E

**PAINT CHIP SAMPLE SUMMARY
FORMER GEORGIA STATE FARMERS MARKET
318 10TH AVENUE
COLUMBUS, MUSCOGEE COUNTY, GEORGIA
TERRACON PROJECT NO. E2177122**

Warehouse #1 (Building 1)			
Sample No.	Paint Color / Substrate	Sample Location	Lab Result (% by weight)
1-LPB-1	Yellow / Concrete	Curb	5.4% w
1-LPB-2	White / Concrete Block	Exterior Office Area Wall	<0.0080%
1-LPB-3	Blue / Metal	Exterior Office Area Window	0.12%
1-LPB-4	Green / Metal	Exterior Support Column, Warehouse Loading Dock	11%
1-LPB-5	Blue / Metal	Exterior Support Column, Warehouse Loading Dock	15%
1-LPB-6	White / Concrete	Interior Wall, Warehouse Area	0.015%
Warehouse #2 (Building 2)			
Sample No.	Paint Color / Substrate	Sample Location	Lab Result (% by weight)
2-LPB-1	Blue / Metal	Warehouse Door	19%
2-LPB-2	White / Metal	Exterior Support Column, Warehouse Loading Dock	17%
2-LPB-3	Yellow / Metal	Metal Trim, Warehouse Loading Dock	0.019%
2-LPB-4	Blue / Metal	Exterior Support Column, Warehouse Loading Dock	19%
Warehouse #3 (Building 3)			
Sample No.	Paint Color / Substrate	Sample Location	Lab Result (% by weight)
3-LPB-1	Black / Metal	Warehouse Door	0.13%
3-LPB-2	Blue-Red / Metal	Warehouse Door	0.037%
3-LPB-3	Blue / Metal	Exterior Support Column, Warehouse Loading Dock	0.15%
3-LPB-4	Blue / Metal	Exterior Support Column, Warehouse Loading Dock	0.27%
3-LPB-5	Yellow / Metal	Exterior Handrail, Warehouse Loading Dock	2.1%

Bold font indicates lead-containing paint per OSHA

"<" (less than) result signifies that the lead was not detected at or above the laboratory analytical reporting limit. It does not mean, however, that lead is not present.

Warehouse #4 (Building 4)			
Sample No.	Paint Color / Substrate	Sample Location	Lab Result (% by weight)
4-LPB-1	Red / Concrete	Front Entrance Area	<0.0080%
4-LPB-2	Yellow / Metal	Interior Support Column	1.1%
4-LPB-3	White / Metal	Interior Support Column	0.34%
4-LPB-4	White / Concrete Block	Office Area Wall	<0.0080%
4-LPB-5	Red / Concrete	Exterior Bollard	0.098%
Former Columbus Towing & Recovery (Building 5)			
Sample No.	Paint Color / Substrate	Sample Location	Lab Result (% by weight)
5-LPB-1	White / Metal	Interior Roof Drain Pipe	0.33%
5-LPB-2	White / Metal	Office Window Frame	0.020%
5-LPB-3	White / Metal	Electrical Conduit	0.47%
5-LPB-4	White / Concrete Block	Office Wall	0.026%
5-LPB-5	White / Metal	Building Entrance Door	0.91%
Loading Area #4 (Building 6)			
Sample No.	Paint Color / Substrate	Sample Location	Lab Result (% by weight)
6-LPB-1	Yellow / Metal	Metal Trim, Loading Dock	0.015%
6-LPB-2	Yellow / Concrete	Loading Dock	8.6%
6-LPB-3	Yellow / Metal	Handrail	2.7%
6-LPB-4	Gray / Metal	Support Column	13%
Loading Area #3 (Building 7)			
Sample No.	Paint Color / Substrate	Sample Location	Lab Result (% by weight)
7-LPB-1	Yellow / Concrete	Loading Dock	6.9%
7-LPB-2	Yellow / Metal	Handrail	0.26%
7-LPB-3	Dark Yellow / Metal	Metal Trim, Loading Dock	7.2%
7-LPB-4	Gray / Metal	Support Column	21%
Loading Area #2 (Building 8)			
Sample No.	Paint Color / Substrate	Sample Location	Lab Result (% by weight)
8-LPB-1	Yellow / Concrete	Loading Dock	5.9%
8-LPB-2	Yellow / Metal	Metal Trim, Loading Dock	0.87%
8-LPB-3	Dark Yellow / Concrete	Loading Dock	0.39%
8-LPB-4	Gray / Metal	Support Column	3.3%

Bold font indicates lead-containing paint per OSHA

"<" (less than) result signifies that the lead was not detected at or above the laboratory analytical reporting limit. It does not mean, however, that lead is not present

Loading Area #1 (Building 9)			
Sample No.	Paint Color / Substrate	Sample Location	Lab Result (% by weight)
9-LPB-1	Yellow / Concrete	Loading Dock	9.3%
9-LPB-2	Yellow / Metal	Metal Trim, Loading Dock	8.1%
9-LPB-3	Gray / Metal	Support Column	3.7%
9-LPB-4	Green / Metal	Support Column	0.024%
Restaurant (Building 10)			
Sample No.	Paint Color / Substrate	Sample Location	Lab Result (% by weight)
10-LPB-1	Yellow / Concrete	Building Sidewalk	2.3%
10-LPB-2	Brown / Concrete Block	Interior Wall	<0.0080%
10-LPB-3	White / Concrete	Kitchen Ceiling	<0.0080%
10-LPB-4	Brown / Concrete	Kitchen Ceiling	<0.0080%
10-LPB-5	White / Concrete	Exterior Soffit	0.014%

Bold font indicates lead-containing paint per OSHA

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APPENDIX F

IDENTIFIED ASBESTOS-CONTAINING MATERIALS

APPENDIX F

IDENTIFIED ASBESTOS-CONTAINING MATERIALS FORMER GEORGIA STATE FARMERS MARKET 318 10TH AVENUE COLUMBUS, MUSCOGEE COUNTY, GEORGIA TERRACON PROJECT NO. E2177122

Warehouse #1 (Building 1)						
HA	Description	Material Location	Percent/Type Asbestos	NESHAP Classification	Condition	Estimated Quantity*
1-1 & 1-10	12 X 12 Brown VCT (Some Areas Under Carpeting)	Office Area (Excluding Back Room & Mech. Closet and Bathrooms)	4-5% C – VCT 3-5% C – Black Mastic	Category I Non-Friable ACM	Good	1,000 ft ²
1-2	12x12 White VCT	Office Area, Back Room & Mechanical Room	ND – VCT 3% C – Black/Yellow Mastic	Category I Non-Friable ACM	Good	200 ft ²
1-6 ¹	Ceramic Wall Tile Mortar	Office Area Bathrooms	<1% C - Mortar	Category II Non-Friable ACM		1,000 ft ²
1-11	Insulation Wall Panels	Walk-in Cold Storage Units	4% C – Insulation Panels	Category II Non-Friable ACM	Good	12,000 ft ²
1-13	Exterior Door Caulk	Office Area	4% C - Caulking	Category II Non-Friable ACM	Good	1 ft ²

HA = Homogenous area, C = Chrysotile asbestos, ft² = square feet

* Quantities are estimates and should be verified by the asbestos abatement contractor

¹ Samples were determined by the laboratory to contain >1% asbestos content and, therefore, not regulated under NESHAPS. For the purposes of this hazardous materials assessment report, these materials are considered to be ACM until additional sampling and/or analysis (such as point count analysis) confirms otherwise.

Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos.

Category II non-friable ACM includes all other materials containing more than 1% asbestos and not otherwise identified as Category I non-friable ACM.

RACM includes friable ACM, Category I and Category II non-friable ACM, which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities.

Warehouse #2 (Building 2)						
HA	Description	Material Location	Percent/Type Asbestos	NESHAP Classification	Condition	Estimated Quantity*
2-2	Insulation Wall Panels	Walk-in Cold Storage Units	2% C – Insulation Panels	Category II Non-Friable ACM	Good	15,000 ft ²
2-3	Ceramic Wall Tile Mortar	Bathrooms	3% C - Mortar	Category II Non-Friable ACM	Good	1,200 ft ²

HA = Homogenous area, C = Chrysotile asbestos, ft² = square feet

* Quantities are estimates and should be verified by the asbestos abatement contractor

Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos.

Category II non-friable ACM includes all other materials containing more than 1% asbestos and not otherwise identified as Category I non-friable ACM.

RACM includes friable ACM, Category I and Category II non-friable ACM, which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities.

Warehouse #3 (Building 3)						
HA	Description	Material Location	Percent/Type Asbestos	NESHAP Classification	Condition	Estimated Quantity*
3-2	Ceramic Wall Tile Mortar	Bathrooms, Vendor Areas	2% C - Mortar	Category II Non-Friable ACM	Good	1,500 ft ²
3-4	Insulation Wall Panels	Walk-in Cold Storage Unit	2% C – Insulation Panels	Category II Non-Friable ACM	Good	15,500 ft ²
3-6	2x2 Ceiling Tile	Office, Vendor Area 3	10% A – Ceiling Tile 2% C – Ceiling Tile	RACM	Good	100 ft ²

HA = Homogenous area, A = Amosite, C = Chrysotile asbestos, ft² = square feet

* Quantities are estimates and should be verified by the asbestos abatement contractor

Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos.

Category II non-friable ACM includes all other materials containing more than 1% asbestos and not otherwise identified as Category I non-friable ACM.

RACM includes friable ACM, Category I and Category II non-friable ACM, which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities.

Warehouse #4 (Building 4)						
HA	Description	Material Location	Percent/Type Asbestos	NESHAP Classification	Condition	Estimated Quantity*
4-3	12x12 Blue-Speckled VCT w/ Black Mastic	Office Area	ND – VCT 2-6% C – Tan/Black Mastic	Category I Non-Friable ACM	Good	2,000 ft ²
4-4	9x9 VCT	Office Area	4-10% C – VCT 5% C - Mastic	Category I Non-Friable ACM	Good	100 ft ²
4-5 ¹	Carpet Glue	Office Area	<1% C – Black/Yellow Mastic	Category I Non-Friable ACM	Good	1,000 ft ²
4-9	Insulation Wall Panels	Walk-In Cold Storage Unit	3% C – Insulation Panels	Category II Non-Friable ACM	Good	50,000 ft ²
4-10	Mudded Thermal Pipe Insulation	Office Area, 2 nd Floor Mech. Room	3% A – Insulation 2-3% C - Insulation	RACM	Good	50 ft ²
4-12	HVAC Duct Insulation (Tar Coating on Metal Foil)	Office Area, 2 nd Floor Mech. Room	7-10% C – Tar Coating	Category II Non-Friable ACM	Good	25 ft ²
4-13	Stair Tread	Office Area	2% C – Stair Tread ND – Yellow Mastic ND – Brown Mastic	Category I Non-Friable ACM	Good	100 ft ²
4-15	Ceramic Wall Tile Mortar	Office Area, Bathroom	2% C - Mortar	Category II Non-Friable ACM	Good	100 ft ²

HA = Homogenous area, A = Amosite, C = Chrysotile asbestos, ft² = square feet

* Quantities are estimates and should be verified by the asbestos abatement contractor

¹ Samples were determined by the laboratory to contain >1% asbestos content and, therefore, not regulated under NESHAPS. For the purposes of this hazardous materials assessment report, these materials are considered to be ACM until additional sampling and/or analysis (such as point count analysis) confirms otherwise

Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos.

Category II non-friable ACM includes all other materials containing more than 1% asbestos and not otherwise identified as Category I non-friable ACM.

RACM includes friable ACM, Category I and Category II non-friable ACM, which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities.

Former Columbus Towing & Recovery (Building 5)						
HA	Description	Material Location	Percent/Type Asbestos	NESHAP Classification	Condition	Estimated Quantity*
5-1	Pipe Wrap & Insulation	Office Storage Room	ND – Pipe Wrap 5% C – Insulation 3% A - Insulation	RACM	Good	50 LF

HA = Homogenous area, A = Amosite, C = Chrysotile asbestos, LF = Linear feet

* Quantities are estimates and should be verified by the asbestos abatement contractor

Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos.

Category II non-friable ACM includes all other materials containing more than 1% asbestos and not otherwise identified as Category I non-friable ACM.

RACM includes friable ACM, Category I and Category II non-friable ACM, which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities.

Loading Area #4 (Building 6)						
HA	Description	Material Location	Percent/Type Asbestos	NESHAP Classification	Condition	Estimated Quantity*
6-2	Ceramic Wall Tile Mortar	Bathroom	2% C - Mortar	Category II Non-Friable ACM	Good	1,000 ft ²

HA = Homogenous area, C = Chrysotile asbestos, ft² = square feet

* Quantities are estimates and should be verified by the asbestos abatement contractor

Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos.

Category II non-friable ACM includes all other materials containing more than 1% asbestos and not otherwise identified as Category I non-friable ACM.

RACM includes friable ACM, Category I and Category II non-friable ACM, which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities.

APPENDIX G

**ANALYTICAL LABORATORY DATA REPORTS AND
CHAIN OF CUSTODY FORMS**



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815004

Customer ID: TRCN34

Customer PO: E2177122

Project ID:

Attention: Stephen Howard
Terracon
2147 Riverchase Office Road
Birmingham, AL 35244

Phone: (205) 942-1289

Fax: (205) 942-1266

Received Date: 05/18/2018 9:20 AM

Analysis Date: 05/21/2018 - 05/22/2018

Collected Date: 05/04/2018

Project: E2177122 / Building 1

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-1-1-VCT <i>041815004-0001</i>	12 X 12 Brown VCT	Brown Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
1-1-1-Mastic <i>041815004-0001A</i>	Mastic	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
1-1-2-VCT <i>041815004-0002</i>	12 X 12 Brown VCT	Brown Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
1-1-2-Mastic <i>041815004-0002A</i>	Mastic	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
1-2-3-VCT <i>041815004-0003</i>	12 x 12 White VCT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-2-3-Mastic <i>041815004-0003A</i>	Mastic	Black/Yellow Non-Fibrous Heterogeneous		97% Non-fibrous (Other)	3% Chrysotile
<i>Inseparable yellow and black mastic.</i>					
1-2-4-VCT <i>041815004-0004</i>	12 x 12 White VCT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-2-4-Mastic <i>041815004-0004A</i>	Mastic	Black/Yellow Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
<i>Inseparable yellow and black mastic.</i>					
1-3-5 <i>041815004-0005</i>	Ceiling Tile w/Fissures and Pinholes	White/Beige Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (Other)	None Detected
1-3-6 <i>041815004-0006</i>	Ceiling Tile w/Fissures and Pinholes	White/Beige Fibrous Homogeneous	70% Cellulose 5% Min. Wool	25% Non-fibrous (Other)	None Detected
1-4-7 <i>041815004-0007</i>	Ceiling Tile w/Pinholes	White/Beige Fibrous Homogeneous	45% Cellulose 35% Min. Wool	20% Non-fibrous (Other)	None Detected
1-4-8 <i>041815004-0008</i>	Ceiling Tile w/Pinholes	White/Beige Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
1-5-9 <i>041815004-0009</i>	Pipe Wrap	White Fibrous Homogeneous	70% Cellulose 12% Glass	18% Non-fibrous (Other)	None Detected
1-5-10 <i>041815004-0010</i>	Pipe Wrap	White Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
1-6-11 <i>041815004-0011</i>	Ceramic Wall Tile Mortar	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile

Recommend TEM

Initial report from: 05/22/2018 12:12:49



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

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EMSL Order: 041815004
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-6-12 <small>041815004-0012</small> <i>Recommend TEM</i>	Ceramic Wall Tile Mortar	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-7-16 <small>041815004-0013</small> <i>Sample appears to be grout.</i>	Ceramic Wall Tile Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-7-17 <small>041815004-0014</small> <i>Sample appears to be grout.</i>	Ceramic Wall Tile Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-19-Plaster <small>041815004-0015</small>	Plaster Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-19-Texture <small>041815004-0015A</small>	Texture	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-20-Plaster <small>041815004-0016</small>	Plaster Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-20-Texture <small>041815004-0016A</small>	Texture	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-21-Plaster <small>041815004-0017</small>	Plaster Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-21-Texture <small>041815004-0017A</small>	Texture	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-22-Skim Coat <small>041815004-0018</small>	Plaster Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-22-Base Coat <small>041815004-0018A</small>	Plaster Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-22-Texture <small>041815004-0018B</small>	Texture	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-23-Skim Coat <small>041815004-0019</small>	Plaster Wall	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-23-Base Coat <small>041815004-0019A</small>	Plaster Wall	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-8-23-Texture <small>041815004-0019B</small>	Texture	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-9-24-Drywall <small>041815004-0020</small>	Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 3% Glass	82% Non-fibrous (Other)	None Detected
1-9-24-Joint Compound <small>041815004-0020A</small>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-9-25-Drywall <small>041815004-0021</small>	Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected

Initial report from: 05/22/2018 12:12:49



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EMSL Order: 041815004
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-9-25-Joint Compound <i>041815004-0021A</i>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-9-26-Drywall <i>041815004-0022</i>	Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
1-9-26-Joint Compound <i>041815004-0022A</i>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-9-27-Drywall <i>041815004-0023</i>	Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
1-9-27-Joint Compound <i>041815004-0023A</i>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-9-28-Drywall <i>041815004-0024</i>	Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 3% Glass	82% Non-fibrous (Other)	None Detected
1-9-28-Joint Compound <i>041815004-0024A</i>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-9-29-Drywall <i>041815004-0025</i>	Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
1-9-29-Joint Compound <i>041815004-0025A</i>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-9-30-Drywall <i>041815004-0026</i>	Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 2% Glass	83% Non-fibrous (Other)	None Detected
1-9-30-Joint Compound <i>041815004-0026A</i>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-10-31-VCT <i>041815004-0027</i>	12 x 12 Brown VCT under Carpet	Brown Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
1-10-31-Mastic <i>041815004-0027A</i>	Mastic	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
1-10-31-Mastic 2 <i>041815004-0027B</i>	12 x 12 Brown VCT under Carpet	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-10-32-VCT <i>041815004-0028</i>	Mastic	Brown Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
1-10-32-Mastic <i>041815004-0028A</i>	12 x 12 Brown VCT under Carpet	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
1-10-32-Mastic 2 <i>041815004-0028B</i>	Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-11-33 <i>041815004-0029</i>	Insulation Panels - Cold Storage	Gray Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
1-11-34 <i>041815004-0030</i>	Insulation Panels - Cold Storage	Gray Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile

Initial report from: 05/22/2018 12:12:49



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815004
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1-12-35 <i>041815004-0031</i>	Window Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-12-36 <i>041815004-0032</i>	Window Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
1-13-37 <i>041815004-0033</i>	Exterior Door Caulk	Tan Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
1-13-38 <i>041815004-0034</i>	Exterior Door Caulk	Tan Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile

Analyst(s) _____
 Edward Zambrano (25)
 Olufunke Akintunde (31)


 Benjamin Ellis, Laboratory Manager
 or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 05/22/2018 12:12:49



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815004

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Company: Terracon		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 2147 Riverchase Office Road		Third Party Billing requires written authorization from third party	
City: Birmingham	State/Province: AL	Zip/Postal Code: 35244	Country: US
Report To (Name): Stephen Howard		Telephone #: 205-942-1289	
Email Address: stephen.howard@terracon.com		Fax #: 205-942-1266	Purchase Order:
Project Name/Number: E2177122 Building 1		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: GA		Connecticut Samples: Commercial Residential	

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT(AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers $\geq 10\mu m$ <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:
---	---	--

<p align="center">Lead (Pb)</p> <p>- Flame Atomic Absorption</p> <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B <p>Graphite Furnace Atomic Absorption</p> <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9 Other: <input type="checkbox"/>	<p align="center">Materials Science</p> <input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>
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Microbiology

<p>Wipe and Bulk Samples</p> <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i> <p>Water Samples</p> <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	<p>Air Samples</p> <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing <p>Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/> </p>	<p align="center">IAQ</p> Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COG Other: <input type="checkbox"/>
---	---	---

****Comments/Special Instructions:** Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Client Sample #'s		Total # of Samples: 34
Relinquished (Client): <i>[Signature]</i>	Date: 5/17/18	Time:
Received (Lab): <i>[Signature]</i>	Date: 5/18/18	Time: 9:20

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815004

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1-1-1	12x12 Brown VCT	Building 1	5/4/18
1-1-2	↓		
1-2-3	12x12 White VCT		
1-2-4	↓		
1-3-5	Ceiling Tile w/ fissures & pinholes		
1-3-6	↓		
1-4-7	Ceiling Tile w/ pinholes		
1-4-8	↓		
1-5-9	Pipe Wrap		
1-5-10	↓		
1-6-11	Ceramic Wall Tile Mortar		
1-6-12	↓		
1-6-13	_____		
1-7-16	Ceramic Floor Tile Mortar		
1-7-17	↓		
1-7-18	_____		

RECEIVED
 EMSL
 CINCINNATI, N.J.
 2018 MAY 18 AM 10:15

***Comments/Special Instructions:**
 Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
 Attention: Stephen Howard Phone: 205-443-6224 Email: stephen.howard@terracon.com Purchase Order:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815004

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1-8-19	Plaster Wall	Building 1	5/4/18
1-8-20	↓		
1-8-21			
1-8-22			
1-8-23			
1-9-24		Drywall	
1-9-25	↓		
1-9-26			
1-9-27			
1-9-28			
1-9-29			
1-9-30			
1-10-31	12x12 Brown VCT (Under Carpet)		
1-10-32	↓		
1-11-33	Insulation Panels (Cold Storage)		
1-11-34	↓	↓	↓

RECEIVED
 EMSL
 DINNAN/INSON, N.J.
 2018 MAY 9 AM 10:45

2018 MAY 18 AM 10:45

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 Attention: Stephen Howard Phone: 205-443-6224 Email: stephen.howard@terracon.com Purchase Order:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRADING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815004

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1-12-35	Exterior Window Caulk	Building 1	5/4/18
1-12-36	↓	↓	↓
1-13-37	Exterior Door Caulk		
1-13-38	↓	↓	↓

RECEIVED
EMSL
CINNAMILTON, N.J.
2018 MAY 18 AM 10:45

***Comments/Special Instructions:**
Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815006
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

Attention: Stephen Howard Terracon 2147 Riverchase Office Road Birmingham, AL 35244	Phone: (205) 942-1289 Fax: (205) 942-1266 Received Date: 05/18/2018 9:20 AM Analysis Date: 05/21/2018 Collected Date: 05/04/2018
Project: E2177122 / Building 2	

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

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
2-1-1 041815006-0001	Bathrooms - Bldg 2 - Ceiling Tile	White Fibrous Homogeneous	50% Cellulose 40% Min. Wool	10% Non-fibrous (Other)	None Detected
2-1-2 041815006-0002	Bathrooms - Bldg 2 - Ceiling Tile	White Fibrous Homogeneous	50% Cellulose 40% Min. Wool	10% Non-fibrous (Other)	None Detected
2-2-3 041815006-0003	Bathrooms - Bldg 2 - Insulation Panels	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
2-2-4 041815006-0004	Bathrooms - Bldg 2 - Insulation Panels	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
2-3-5 041815006-0005	Bldg 2 - Ceramic Wall Tile Mortar	White Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
2-3-6 041815006-0006	Bldg 2 - Ceramic Wall Tile Mortar	Gray/White Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
2-4-8 041815006-0007	Bldg 2 - Ceramic Floor Tile Mortar	Gray/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-4-9 041815006-0008	Bldg 2 - Ceramic Floor Tile Mortar	Gray/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-5-10 041815006-0009	Bay 1 Office - Bldg 2 - Carpet Glue	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-5-11 041815006-0010	Bay 1 Office - Bldg 2 - Carpet Glue	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-6-12 041815006-0011	Bay 2 Office - Bldg 2 - Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-6-13 041815006-0012	Bay 2 Office - Bldg 2 - Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-7-14 041815006-0013	Bay 2 Office - Bldg 2 - 12x12 VCT	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-7-15 041815006-0014	Bay 2 Office - Bldg 2 - 12x12 VCT	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-8-16-Drywall 041815006-0015	Bay 2 Office - Bldg 2 - Drywall	White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
2-8-16-Joint Compound 041815006-0015A	Bay 2 Office - Bldg 2 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/22/2018 07:39:08



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815006
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
2-8-17-Drywall <i>041815006-0016</i>	Bay 2 Office - Bldg 2 - Drywall	White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
2-8-17-Joint Compound <i>041815006-0016A</i>	Bay 2 Office - Bldg 2 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-9-18 <i>041815006-0017</i>	Bay 2 - Bldg 2 - Applied Ceiling Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-9-19 <i>041815006-0018</i>	Bay 2 - Bldg 2 - Applied Ceiling Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2-9-20 <i>041815006-0019</i>	Bay 2 - Bldg 2 - Applied Ceiling Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s) _____

Ebony Miller (11)
John Flanagan (10)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 05/22/2018 07:39:08



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

041815006

East Weymouth, MA 02189

PHONE: (781) 682-2206

FAX: (781) 682-2207

Company : Terracon		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different	
Street: 2147 Riverchase Office Road		If Bill to is Different note instructions in Comments**	
City: Birmingham		Third Party Billing requires written authorization from third party	
State/Province: AL	Zip/Postal Code: 35244	Country: US	
Report To (Name): Stephen Howard		Telephone #: 205-942-1289	
Email Address: stephen.howard@terracon.com		Fax #: 205-942-1266	Purchase Order:
Project Name/Number: E2177122 <i>Building 2</i>	Please Provide Results:	<input type="checkbox"/> FAX	<input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail
U.S. State Samples Taken: GA	Connecticut Samples:	Commercial	Residential

Turnaround Time (TAT) Options* - Please Check

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

**For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)*

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT(AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:
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Lead (Pb)		Materials Science
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	<input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other:
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	Other: <input type="checkbox"/>	

Microbiology

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code:	IAQ
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>

**Comments/Special Instructions: BillTo: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Client Sample #'s		Total # of Samples: <i>195</i>
Relinquished (Client): <i>[Signature]</i>	Date: <i>5/17/18</i>	Time:
Received (Lab): <i>[Signature]</i>	Date: <i>5/18/18</i>	Time: <i>9:00</i>

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



Chain of Custody
EMSL Order Number (Lab Use Only):

041815006

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
2-1-1	Ceiling Tile, Bathrooms	Building 2	5/4/18
2-1-2	↓		
2-2-3	Insulation Panels, Cold Storage		
2-2-4	↓		
2-3-5	Ceramic Wall Tile Mortar		
2-3-6	↓		
2-3-7	_____		
2-4-8	Ceramic Floor Tile Mortar		
2-4-9	↓		
2-5-10	Carpet Glue, Bay 1 Office		
2-5-11	↓		
2-6-12	Carpet Glue, Bay 2 Office		
2-6-13	↓		
2-7-14	12x12 VCT, Bay 2 Office		
2-7-15	↓		
2-8-16	Drywall, Bay 2 Office	↓	↓

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 CINNAMINSON, N.J.
 2018 MAY 18 A 10:34

***Comments/Special Instructions:**
 BillTo: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
 Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



Chain of Custody
EMSL Order Number (Lab Use Only):

041815006

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
2-8-17	Drywall, Bay 2 Office	Building 2	5/4/18
2-9-18	Applied Ceiling Texture, Bay 2	↓	↓
2-9-19	↓	↓	↓
2-9-20	↓	↓	↓

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 CINNAMINSON, N.J.
 1 2018 MAY 18 A 10: 35

***Comments/Special Instructions:**
 Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
 Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815008

Customer ID: TRCN34

Customer PO: E2177122

Project ID:

Attention: Stephen Howard
Terracon
2147 Riverchase Office Road
Birmingham, AL 35244

Phone: (205) 942-1289

Fax: (205) 942-1266

Received Date: 05/18/2018 9:20 AM

Analysis Date: 05/21/2018

Collected Date: 05/04/2018

Project: E2177122

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
3-1-1 <small>041815008-0001</small>	Bldg 3 - Pipe Wrap	Tan Fibrous Homogeneous	60% Glass	40% Non-fibrous (Other)	None Detected
3-1-2 <small>041815008-0002</small>	Bldg 3 - Pipe Wrap	Tan Fibrous Homogeneous	75% Glass	25% Non-fibrous (Other)	None Detected
3-2-3 <small>041815008-0003</small>	Bldg 3 - Ceramic Wall Tile Mortar	Gray/White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
3-2-4 <small>041815008-0004</small>	Bldg 3 - Ceramic Wall Tile Mortar	Gray/White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
3-3-8 <small>041815008-0005</small>	Bldg 3 - Ceramic Floor Tile Mortar	Gray/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-3-9 <small>041815008-0006</small>	Bldg 3 - Ceramic Floor Tile Mortar	Gray/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-4-10 <small>041815008-0007</small>	Bldg 3 - Cold Storage - Insulation Panels	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
3-4-11 <small>041815008-0008</small>	Bldg 3 - Cold Storage - Insulation Panels	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
3-5-12 <small>041815008-0009</small>	Bldg 3 - Inset Ceiling Tiles	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (Other)	None Detected
3-5-13 <small>041815008-0010</small>	Bldg 3 - Inset Ceiling Tiles	White Fibrous Homogeneous	60% Cellulose 30% Min. Wool	10% Non-fibrous (Other)	None Detected
3-6-14 <small>041815008-0011</small>	Bldg 3 - 2x2 Ceiling Tiles	White Fibrous Homogeneous	60% Min. Wool	28% Non-fibrous (Other)	10% Amosite 2% Chrysotile
3-6-15 <small>041815008-0012</small>	Bldg 3 - 2x2 Ceiling Tiles	White Fibrous Homogeneous	63% Min. Wool	25% Non-fibrous (Other)	10% Amosite 2% Chrysotile
3-7-16-Drywall <small>041815008-0013</small>	Bldg 3 - Bay 3 - Drywall	White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
3-7-16-Joint Compound <small>041815008-0013A</small>	Bldg 3 - Bay 3 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-7-17-Drywall <small>041815008-0014</small>	Bldg 3 - Bay 3 - Drywall	White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
3-7-17-Joint Compound <small>041815008-0014A</small>	Bldg 3 - Bay 3 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/22/2018 07:59:09



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041815008
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
3-8-18 <i>041815008-0015</i>	Bldg 3 - Bay 2 - Cove Base Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-8-19 <i>041815008-0016</i>	Bldg 3 - Bay 2 - Cove Base Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-9-20 <i>041815008-0017</i>	Bldg 3 - Bay 2 - Brick Pattern Sheet Vinyl	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
3-9-21 <i>041815008-0018</i>	Bldg 3 - Bay 2 - Brick Pattern Sheet Vinyl	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s) _____

Ebony Miller (10)
John Flanagan (10)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 05/22/2018 07:59:09



EMSL ANALYTICAL, INC.
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Chain of Custody

EMSL Order Number (Lab Use Only)

041815008

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EMSL
CINNAMINSON, N.J.
2018 MAY 18 AM 10:41

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Company: Terracon		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 2147 Riverchase Office Road		Third Party Billing requires written authorization from third party	
City: Birmingham	State/Province: AL	Zip/Postal Code: 35244	Country: US
Report To (Name): Stephen Howard		Telephone #: 205-942-1289	
Email Address: stephen.howard@terracon.com		Fax #: 205-942-1266	Purchase Order:
Project Name/Number: E2177122		<input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: GA		Connecticut Samples:	Commercial Residential

Turnaround Time (TAT) Options* - Please Check

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

**For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)*

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP
TEM - Air <input checked="" type="checkbox"/> 4-4.5hr TAT(AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312	Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative)	
TEM - Water Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	
Other:		

Lead (Pb)

Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	Other: <input type="checkbox"/>

Materials Science

Common Particle ID (large particles)
 Full Particle ID (environmental dust)
 Basic Material ID (solids)
 Advanced Material ID
 Physical Testing (Tensile, Compression)
 Combustion-by-products (soot, char, etc.)
 X-Ray Fluorescence (elem. analysis)
 X-Ray Diffraction (Crystalline Part.)
 MMVF's (Fibrous glass, RCF's)
 Particle Size (sieve/microscopy/laser)
 Combustible Dust
 Petrographic Examination
Other:

Microbiology

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>

IAQ

Nuisance Dust NIOSH 0500 0600
 Airborne Dust PM10 TSP
 Silica Analysis: All Species
 Silica Analysis - Single Species
 Alpha Quartz Cristobalite Tridymite
 HVAC Efficiency
 Carbon Black
 Airborne Oil Mist
 Radon Testing: Call for Kit and COC
Other:

**Comments/Special Instructions: BillTo: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Client Sample #'s	-	Total # of Samples:	18 AT
Relinquished (Client):	Stephen Howard	Date:	5/17/18
Received (Lab):	Andrew Jones EXEX	Date:	5/18/18
		Time:	920

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

041815008

EMSL Analytical, Inc.
814 Broad St.



EMSL ANALYTICAL, INC.
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Chain of Custody
EMSL Order Number (Lab Use Only):

2018 MAY 18 AM 10:40

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
3-1-1	Pipe Wrap	Building 3	5/4/18
3-1-2	↓		
3-2-3	Ceramic Wall Tile Mortar		
3-2-4	↓		
3-2-5			
3-2-6			
3-2-7			
3-3-8	Ceramic Floor Tile Mortar		
3-3-9	↓		
3-4-10	Insulation Panels, Cold Storage		
3-4-11	↓		
3-5-12	Inset Ceiling Tiles		
3-5-13	↓		
3-6-14	2x2 Ceiling Tiles		
3-6-15	↓		
3-7-16	Drywall, Bay 3	↓	↓

***Comments/Special Instructions:**
 Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
 Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

041815008

EMSL Analytical, Inc.
814 Broad St.



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Chain of Custody
EMSL Order Number (Lab Use Only):

RECEIVED
EMSL
CINNAMINSON, N.J.

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

2018 MAY 18 AM 10:40

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
3-7-17	Drywall, Bay 3	Building 3	5/4/18
3-8-18	Cove Base Glue, Bay 2		
3-8-19	↓		
3-9-20	Brick-Pattern Sheet Vinyl, Bay 2		
3-9-21	↓	↓	↓

***Comments/Special Instructions:**
 Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
 Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041815010

Customer ID: TRCN34

Customer PO: E2177122

Project ID:

Attention: Stephen Howard
Terracon
2147 Riverchase Office Road
Birmingham, AL 35244

Phone: (205) 942-1289

Fax: (205) 942-1266

Received Date: 05/18/2018 9:20 AM

Analysis Date: 05/21/2018 - 05/22/2018

Collected Date:

Project: E2177122 / Building 4

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4-1-1-VCT 041815010-0001	Building 4 / Office - 12x12 Blue Speckled Vinyl Floor Tile	Tan/Blue Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
4-1-1-Mastic 041815010-0001A	Building 4 / Office - Mastic	Black Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
4-1-2-Floor Tile 041815010-0002	Building 4 / Office - 12x12 Blue Speckled Vinyl Floor Tile	Tan Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
4-1-2-Mastic 041815010-0002A	Building 4 / Office - Mastic	Black Non-Fibrous Homogeneous	HA: 1	100% Non-fibrous (Other)	None Detected
4-2-3 041815010-0003	Building 4 / Office - 2nd Layer Vinyl Floor Tile underneath HA1	Gray/Blue Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
4-2-4 041815010-0004	Building 4 / Office - 2nd Layer Vinyl Floor Tile underneath HA1	Gray Non-Fibrous Homogeneous	HA: 2	100% Non-fibrous (Other)	None Detected
4-3-5-VCT 041815010-0005	Building 4 / Office - 12x12 Blue Speckled Vinyl Floor Tile	Gray/Blue Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
4-3-5-Mastic 041815010-0005A	Building 4 / Office - Black Mastic	Tan/Black Non-Fibrous Heterogeneous	HA: 3	94% Non-fibrous (Other)	6% Chrysotile
4-3-6-Floor Tile 041815010-0006	Building 4 / Office - 12x12 Blue Speckled Vinyl Floor Tile	Gray Non-Fibrous Homogeneous	HA: 3	100% Non-fibrous (Other)	None Detected
4-3-6-Mastic 041815010-0006A	Building 4 / Office - Black Mastic	Black Non-Fibrous Homogeneous	HA: 3	3% Cellulose 95% Non-fibrous (Other)	2% Chrysotile
4-4-7-Vinyl Floor Tile 041815010-0007	Building 4 / Office - 9x9 Vinyl Floor Tile	Tan Non-Fibrous Homogeneous	HA: 4	96% Non-fibrous (Other)	4% Chrysotile
4-4-7-Mastic 041815010-0007A	Building 4 / Office - Mastic	Black Non-Fibrous Homogeneous	HA: 4	95% Non-fibrous (Other)	5% Chrysotile

Initial report from: 05/22/2018 16:41:48



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815010
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4-4-8--Vinyl Floor Tile <i>041815010-0008</i>	Building 4 / Office - 9x9 Vinyl Floor Tile	Tan Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
			HA: 4		
4-4-8-Mastic <i>041815010-0008A</i>	Building 4 / Office - Mastic	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
			HA: 4		
4-5-9 <i>041815010-0009</i> <i>Inseparable black mastic associated with carpet glue.</i>	Building 4 / Office - Carpet Glue	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
			HA: 5		
4-5-10 <i>041815010-0010</i>	Building 4 / Office - Carpet Glue	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
			HA: 5		
4-6-11 <i>041815010-0011</i>	Building 4 / Office - Cove Base Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 6		
4-6-12 <i>041815010-0012</i>	Building 4 / Office - Cove Base Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 6		
4-7-13 <i>041815010-0013</i>	Building 4 / Office - 2x4 Ceiling Tile	White/Beige Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (Other)	None Detected
			HA: 7		
4-7-14 <i>041815010-0014</i>	Building 4 / Office - 2x4 Ceiling Tile	Tan/White Fibrous Homogeneous	50% Cellulose 20% Min. Wool	30% Non-fibrous (Other)	None Detected
			HA: 7		
4-8-15 <i>041815010-0015</i>	Building 4 / Office - 1x1 Ceiling Tile	White/Beige Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
			HA: 8		
4-8-16 <i>041815010-0016</i>	Building 4 / Office - 1x1 Ceiling Tile	White Fibrous Homogeneous	50% Cellulose 30% Min. Wool	20% Non-fibrous (Other)	None Detected
			HA: 8		
4-9-17 <i>041815010-0017</i>	Building 4 / Cold Storage - Insulation Panels	Gray/White Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
			HA: 9		
4-9-18 <i>041815010-0018</i>	Building 4 / Cold Storage - Insulation Panels	Gray/White Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
			HA: 9		
4-10-19 <i>041815010-0019</i>	Building 4 - Mudded Pipe Insulation	Gray Fibrous Homogeneous	6% Cellulose 60% Min. Wool	29% Non-fibrous (Other)	3% Amosite 2% Chrysotile
			HA: 10		
4-10-20 <i>041815010-0020</i>	Building 4 - Mudded Pipe Insulation	Gray Fibrous Homogeneous	5% Cellulose 54% Min. Wool	35% Non-fibrous (Other)	3% Amosite 3% Chrysotile
			HA: 10		

Initial report from: 05/22/2018 16:41:48



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815010
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4-11-21 <i>041815010-0021</i>	Building 4 - Pipe Wrap	Brown/Tan Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
			HA: 11		
4-11-22 <i>041815010-0022</i>	Building 4 - Pipe Wrap	Brown Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
			HA: 11		
4-12-23-Tar Coating <i>041815010-0023</i> <i>Two sample bags submitted for Sample 4-12-23.</i>	Building 4 - HVAC Insulation Tar Coating	Black Non-Fibrous Homogeneous	3% Cellulose	89% Non-fibrous (Other)	8% Chrysotile
			HA: 12		
4-12-23-Tar Coating 2 <i>041815010-0023A</i> <i>Two sample bags submitted for Sample 4-12-23.</i>	Building 4 - HVAC Insulation Tar Coating	Black Non-Fibrous Homogeneous		90% Non-fibrous (Other)	10% Chrysotile
			HA: 12		
4-12-24-Tar Coating <i>041815010-0024</i> <i>Two sample bags submitted for Sample 4-12-24.</i>	Building 4 - HVAC Insulation Tar Coating	Black Non-Fibrous Homogeneous		93% Non-fibrous (Other)	7% Chrysotile
			HA: 12		
4-12-24-Tar Coating 2 <i>041815010-0024A</i>	Building 4 - HVAC Insulation Tar Coating	Black Fibrous Homogeneous	10% Glass	83% Non-fibrous (Other)	7% Chrysotile
			HA: 12		
4-13-25-Stair Tread <i>041815010-0025</i>	Building 4 - Stair Tread	White/Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
			HA: 13		
4-13-25-Mastic <i>041815010-0025A</i>	Building 4 - Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 13		
4-13-25-Mastic 2 <i>041815010-0025B</i>	Building 4 - Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 13		
4-13-26-Stair Tread <i>041815010-0026</i>	Building 4 - Stair Tread	White/Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
			HA: 13		
4-13-26-Mastic <i>041815010-0026A</i>	Building 4 - Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 13		
4-13-26-Mastic 2 <i>041815010-0026B</i>	Building 4 - Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 13		
4-14-27 <i>041815010-0027</i>	Building 4 - Exterior Building Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 14		
4-14-28 <i>041815010-0028</i>	Building 4 - Exterior Building Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/22/2018 16:41:48



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815010
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
			HA: 14		
4-15-26 <i>041815010-0029</i>	Building 4 - Ceramic Wall Tile Mortar	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
			HA: 15		
4-15-30 <i>041815010-0030</i>	Building 4 - Ceramic Wall Tile Mortar	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
			HA: 15		
4-16-31-Mortar <i>041815010-0031</i>	Building 4 - Ceramic Floor Tile Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 16		
4-16-31-Grout <i>041815010-0031A</i>	Building 4 - Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 16		
4-16-32-Mortar <i>041815010-0032</i>	Building 4 - Ceramic Floor Tile Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 16		
4-16-32-Grout <i>041815010-0032A</i>	Building 4 - Grout	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
			HA: 16		

Analyst(s) _____

- Dave Poitras (10)
- John Flanagan (13)
- Olufunke Akintunde (23)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 05/22/2018 16:41:48



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815010

EMSL Analytical, Inc.
814 Broad St.

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Company: Terracon		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 2147 Riverchase Office Road		Third Party Billing requires written authorization from third party	
City: Birmingham	State/Province: AL	Zip/Postal Code: 35244	Country: US
Report To (Name): Stephen Howard		Telephone #: 205-942-1289	
Email Address: stephen.howard@terracon.com		Fax #: 205-942-1266	Purchase Order:
Project Name/Number: E2177122		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: GA		Connecticut Samples: Commercial	Residential

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT(AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:
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<p>Lead (Pb)</p> <p>Flame Atomic Absorption</p> <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B <p>ICP</p> <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C <p>Graphite Furnace Atomic Absorption</p> <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9 <p>Other: <input type="checkbox"/></p>	<p>Materials Science</p> <input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>
--	---

<p>Microbiology</p> <p>Wipe and Bulk Samples</p> <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> Pseudomonas aeruginosa <p>Water Samples</p> <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	<p>Air Samples</p> <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing <p>Real Time Q-PCR (See Analytical Guide for Code) Code:</p> <p>Legionella</p> <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	<p>IAQ</p> Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>
--	--	---

**Comments/Special Instructions: Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Client Sample #'s	Total # of Samples: 32
Relinquished (Client): <i>[Signature]</i>	Date: 5/17/18
Received (Lab): <i>[Signature]</i>	Date: 5/18/18
	Time: 9:00

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only):

041815010

East Weymouth, MA 02189

PHONE: (781) 682-2206

FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (Ar) HA # (Bulk)	Date/Time Sampled
4-1-1	12x12 Blue-Speckled VCT, Offices	Building 4	5/5/18
4-1-2	↓		
4-2-3	2nd Layer VCT, Underneath HA 1		
4-2-4	↓		
4-3-5	12x12 Blue-Speckled VCT w/ Black Mastic		
4-3-6	↓		
4-4-7	9x9 VCT, Offices		
4-4-8	↓		
4-5-9	Carpet Glue, Offices		
4-5-10	↓		
4-6-11	Cove Base Glue, Offices		
4-6-12	↓		
4-7-13	2x4 Ceiling Tile, Offices		
4-7-14	↓		
4-8-15	1x1 Ceiling Tile, Offices		
4-8-16	↓		
<p>*Comments/Special Instructions: Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order.</p>			<p>RECEIVED EMSL CHHAMINSON, N.J. 2018 MAY 18 AM 10:32</p>

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815010

East Weymouth, MA 02189
PHONE (781) 682-2206
FAX (781) 682-2207

Sample #	Sample Description	Volume/Area (A/r) HA # (Bulk)	Date/Time Sampled
4-9-17	Insulation Panels, Cold Storage	Building 4	5/5/18
4-9-18	↓		
4-10-19	Mudded Pipe Insulation		
4-10-20	↓		
4-11-21	Pipe Wrap		
4-11-22	↓		
4-12-23	HVAC Insulation Tar Coating		
4-12-24	↓		
4-13-25	Stair Tread		
4-13-26	↓		
4-14-27	Exterior Building Caulk		
4-14-28	↓		
4-15-29	Ceramic Wall Tile Mortar		
4-15-30	↓		
4-16-31	Ceramic Floor Tile Mortar		
4-16-32	↓		
<p>*Comments/Special Instructions: Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US Attention: Stephen Howard Phone: 205-443-6224 Email: stephen.howard@terracon.com Purchase Order</p>			

RECEIVED
 EMSL
 CINNAPRINSON, N.J.
 2018 MAY 18 AM 10:32

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815026
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

Attention: Stephen Howard Terracon 2147 Riverchase Office Road Birmingham, AL 35244	Phone: (205) 942-1289 Fax: (205) 942-1266 Received Date: 05/18/2018 9:20 AM Analysis Date: 05/21/2018 Collected Date: 05/05/2018
Project: E2177122 / Building 5	

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
5-1-1-Wrap <small>041815026-0001</small>	Building 5 - Pipe Wrap	White Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
5-1-1-Insulation <small>041815026-0001A</small>	Building 5 - Insulation	Gray Fibrous Homogeneous		92% Non-fibrous (Other)	5% Amosite 3% Chrysotile
5-1-2-Wrap <small>041815026-0002</small>	Building 5 - Pipe Wrap	White Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
5-1-2-Insulation <small>041815026-0002A</small>	Building 5 - Insulation	Gray Fibrous Homogeneous		95% Non-fibrous (Other)	3% Amosite 2% Chrysotile
5-2-3 <small>041815026-0003A</small>	Building 5	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
5-2-4 <small>041815026-0004A</small>	Building 5	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
5-3-5 <small>041815026-0005</small>	Building 5 - Ceramic Wall Tile Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
5-3-6 <small>041815026-0006</small>	Building 5 - Ceramic Wall Tile Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s) _____

Alexis Kum (4)
Edward Zambrano (4)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 05/22/2018 09:13:23



EMSL ANALYTICAL INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815026

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Company: Terracon		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different If Bill to is Different note Instructions in Comments**	
Street: 2147 Riverchase Office Road		Third Party Billing requires written authorization from third party	
City: Birmingham	State/Province: AL	Zip/Postal Code: 35244	Country: US
Report To (Name): Stephen Howard		Telephone #: 205-942-1289	
Email Address: stephen.howard@terracon.com		Fax #: 205-942-1266	Purchase Order:
Project Name/Number: E2177122 <i>Buildings</i>		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: GA		Connecticut Samples: Commercial Residential	

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT(AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers \geq 10 μ m <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:
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Lead (Pb)

Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	Other: <input type="checkbox"/>

Materials Science

Common Particle ID. (large particles)
 Full Particle ID (environmental dust)
 Basic Material ID (solids)
 Advanced Material ID
 Physical Testing (Tensile, Compression)
 Combustion-by-products (soot, char, etc.)
 X-Ray Fluorescence (ELEM. ANALYSIS)
 X-Ray Diffraction (Crystalline Part)
 MMVF's (Fibrous glass, RCF, etc.)
 Particle Size (sieve/microscopy)
 Combustible Dust
 Petrographic Examination
Other:

Microbiology

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> Pseudomonas aeruginosa	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code: _____ Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	

IAQ

Nuisance Dust NIOSH 0500 0600
 Airborne Dust PM10 TSP
 Silica Analysis: All Species
 Silica Analysis - Single Species
 Alpha Quartz Cristobalite Tridymite
 HVAC Efficiency
 Carbon Black
 Airborne Oil Mist
 Radon Testing: Call for Kit and COC
Other:

**Comments/Special Instructions: Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
 Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Client Sample #'s		Total # of Samples: 65
Relinquished (Client): <i>[Signature]</i>	Date: 5/17/18	Time:
Received (Lab): <i>[Signature]</i>	Date: 5/18/18	Time: 9:30

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL ANALYTICAL INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815026

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
5-1-1	Pipe Wrap	Building 5	5/5/18
5-1-2	↓		
5-2-3	Ceramic Floor Tile Mortar		
5-2-4	↓		
5-3-5	Ceramic Wall Tile Mortar		
5-3-6	↓		

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CINCINNATI, N.J.
MAY 18 10:37 AM '18

***Comments/Special Instructions:**
BRIIT: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
Attention: Stephen Howard Phone: 205-443-6224 Email: stephen.howard@terracon.com Purchase Order:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com


EMSL Order: 041815054
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

Attention: Stephen Howard Terracon 2147 Riverchase Office Road Birmingham, AL 35244	Phone: (205) 942-1289 Fax: (205) 942-1266 Received Date: 05/18/2018 9:20 AM Analysis Date: 05/21/2018 Collected Date: 05/05/2018
Project: E2177122	

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
6-1-1 <small>041815054-0001</small>	Ceiling Tile	Brown/White Fibrous Homogeneous	60% Cellulose 20% Min. Wool	20% Non-fibrous (Other)	None Detected
6-1-2 <small>041815054-0002</small>	Ceiling Tile	Gray/White Fibrous Homogeneous	45% Cellulose 30% Min. Wool	25% Non-fibrous (Other)	None Detected
6-2-3 <small>041815054-0003</small>	Ceramic Wall Tile Mortar	Tan Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
6-2-4 <small>041815054-0004</small>	Ceramic Wall Tile Mortar	Tan Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
6-3-5 <small>041815054-0005</small>	Ceramic Floor Tile Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
6-3-6 <small>041815054-0006</small>	Ceramic Floor Tile Mortar	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s) _____
 Chelsey Donnelly (3)
 Samantha Rundstorm-Cruz (3)


 Benjamin Ellis, Laboratory Manager
 or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 05/21/2018 20:50:59



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody EMSL Order Number (Lab Use Only):

041815054

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Company: Terracon		EMSL Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different	
Street: 2147 Riverchase Office Road		If Bill to is Different note Instructions in Comments**	
City: Birmingham	State/Province: AL	Zip/Postal Code: 35244	Country: US
Report To (Name): Stephen Howard		Telephone #: 205-942-1289	
Email Address: stephen.howard@terracon.com		Fax #: 205-942-1266	Purchase Order:
Project Name/Number: E2177122		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: GA		Connecticut Samples: Commercial Residential	

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT(AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers $\geq 10\mu m$ <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:
---	---	--

<h3 style="text-align: center;">Lead (Pb)</h3> <p>Flame Atomic Absorption</p> <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B	<p>ICP</p> <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C	<h3 style="text-align: center;">Materials Science</h3> <input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other:
<p>Graphite Furnace Atomic Absorption</p> <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9		<p>Other: <input type="checkbox"/></p>

Microbiology

Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other:	<h3 style="text-align: center;">IAQ</h3> Nuisance Dust NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other:
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)		

****Comments/Special Instructions:** Bill to: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Client Sample #'s	-	Total # of Samples:	6 AT
Relinquished (Client):	<i>John [Signature]</i>	Date:	5/17/18
Received (Lab):	<i>Andrew [Signature]</i>	Date:	5/18/18
		Time:	9:20

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only) **VED**

021815054 - EMSL
C. WATKINS
WATKINS, H. J.

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

2018 MAY 18 AM 10:38

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
6-1-1	Ceiling Tile	Building 6	5/5/18
6-1-2	↓	↓	↓
6-2-3	Ceramic Wall Tile Mortar	↓	↓
6-2-4	↓	↓	↓
6-3-5	Ceramic Floor Tile Mortar	↓	↓
6-3-6	↓	↓	↓

***Comments/Special Instructions:**
 BillTo: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
 Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041815060

Customer ID: TRCN34

Customer PO: E2177122

Project ID:

Attention: Stephen Howard
Terracon
2147 Riverchase Office Road
Birmingham, AL 35244

Phone: (205) 942-1289

Fax: (205) 942-1266

Received Date: 05/18/2018 9:20 AM

Analysis Date: 05/21/2018 - 05/22/2018

Collected Date: 05/05/2018

Project: E2177122

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-1-1 <i>041815060-0001</i>	Building 8 - Exterior Stucco	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-1-2 <i>041815060-0002</i>	Building 8 - Exterior Stucco	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-1-3 <i>041815060-0003</i>	Building 8 - Exterior Stucco	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-2-4-VCT <i>041815060-0004</i>	Building 8 - 12x12 VCT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-2-4-Mastic <i>041815060-0004A</i>	Building 8 - Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-2-5-VCT <i>041815060-0005</i>	Building 8 - 12x12 VCT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-2-5-Mastic <i>041815060-0005A</i>	Building 8 - Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-2-6-Ceiling Board <i>041815060-0006</i>	Building 8 - Ceiling Board	White Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
8-2-6-Texture <i>041815060-0006A</i>	Building 8 - Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-3-7-Ceiling Board <i>041815060-0007</i>	Building 8 - Ceiling Board	Brown/White Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
8-3-7-Texture <i>041815060-0007A</i>	Building 8 - Texture	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-4-8 <i>041815060-0008</i>	Building 8 - Cove Base Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
8-4-9 <i>041815060-0009</i>	Building 8 - Cove Base Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/22/2018 12:19:30



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815060

Customer ID: TRCN34

Customer PO: E2177122

Project ID:

Analyst(s)

Ebony Miller (7)

Edward Zambrano (6)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 05/22/2018 12:19:30



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815060

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Company: Terracon		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 2147 Riverchase Office Road		Third Party Billing requires written authorization from third party	
City: Birmingham	State/Province: AL	Zip/Postal Code: 35244	Country: US
Report To (Name): Stephen Howard		Telephone #: 205-942-1289	
Email Address: stephen.howard@terracon.com		Fax #: 205-942-1266	Purchase Order:
Project Name/Number: E2177122		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: GA		Connecticut Samples: Commercial Residential	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)</small>			
Asbestos			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4-4.5hr TAT(AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers $\geq 10\mu m$ <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking		PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe-ASTM D6480	
		TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:	
Lead (Pb)		Materials Science	
Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B		ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C Other: <input type="checkbox"/>	
Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9			
Microbiology			
Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> <i>Pseudomonas aeruginosa</i>		Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code:	
Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)		Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	
**Comments/Special Instructions: Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:			
Client Sample #'s		Total # of Samples: 9	
Relinquished (Client): <i>[Signature]</i>		Date: 5/17/18	
Received (Lab): <i>[Signature]</i>		Date: 5/18/18	
		Time: 9:00	

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL ANALYTICAL INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815060

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
8-1-1	Exterior Stucco, Guard Building	Building 8	5/5/18
8-1-2	↓	↓	
8-1-3	↓		
8-2-4	12x12 VCT, Guard Building		
8-2-5	↓		
8-3-6	Ceiling Board, Guard Building		
8-3-7	↓		
8-4-8	Cove Base Glue, Guard Building		
8-4-9	↓		
<p>*Comments/Special Instructions: Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US Attention: Stephen Howard Phone: 205-443-6224 Email: stephen.howard@terracon.com Purchase Order:</p>			<p>RECEIVED EMSL CINNAMINSDEN, N.J. 2018 MAY 18 AM 10:38</p>

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041815014

Customer ID: TRCN34

Customer PO: E2177122

Project ID:

Attention: Stephen Howard
Terracon
2147 Riverchase Office Road
Birmingham, AL 35244

Phone: (205) 942-1289

Fax: (205) 942-1266

Received Date: 05/18/2018 9:20 AM

Analysis Date: 05/21/2018

Collected Date:

Project: E2177122 / Building 10

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

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
10-1-1 041815014-0001	Building 10 - 2x2 Ceiling Tile w/Pinholes	Gray/White Fibrous Homogeneous	50% Cellulose 40% Min. Wool	10% Non-fibrous (Other)	None Detected
HA: 1					
10-1-2 041815014-0002	Building 10 - 2x2 Ceiling Tile w/Pinholes	Gray/White Fibrous Homogeneous	50% Cellulose 40% Min. Wool	10% Non-fibrous (Other)	None Detected
HA: 1					
10-2-3 041815014-0003	Building 10 - 2x2 Ceiling Tile w/Pinholes & Fissures	Gray/White Fibrous Homogeneous	45% Cellulose 45% Min. Wool	10% Non-fibrous (Other)	None Detected
HA: 2					
10-2-4 041815014-0004	Building 10 - 2x2 Ceiling Tile w/Pinholes & Fissures	Gray/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
HA: 2					
10-3-5 041815014-0005	Building 10 - Patterned Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 3					
10-3-6 041815014-0006	Building 10 - Patterned Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 3					
10-4-7 041815014-0007	Building 10 - Gray Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 4					
10-4-8 041815014-0008	Building 10 - Gray Carpet Glue	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 4					
10-5-9-Drywall 041815014-0009	Building 10 - Drywall	Brown/White Fibrous Homogeneous	20% Cellulose 3% Glass	77% Non-fibrous (Other)	None Detected
HA: 5					
10-5-9-Joint Compound 041815014-0009A	Building 10 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 5					
10-5-10-Drywall 041815014-0010	Building 10 - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 3% Glass	82% Non-fibrous (Other)	None Detected
HA: 5					
10-5-10-Joint Compound 041815014-0010A	Building 10 - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
HA: 5					

Initial report from: 05/22/2018 07:38:00



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815014
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-6-11-Mortar <i>041815014-0011</i>	Building 10 - Bathroom - Ceramic Wall Tile Mortar	White Non-Fibrous Homogeneous	HA: 6	100% Non-fibrous (Other)	None Detected
10-6-11-Grout <i>041815014-0011A</i>	Building 10 - Bathroom - Ceramic Wall Tile Grout	Gray Non-Fibrous Homogeneous	HA: 6	100% Non-fibrous (Other)	None Detected
10-6-12-Mortar <i>041815014-0012</i>	Building 10 - Bathroom - Ceramic Wall Tile Mortar	White Non-Fibrous Homogeneous	HA: 6	100% Non-fibrous (Other)	None Detected
10-6-12-Grout <i>041815014-0012A</i>	Building 10 - Bathroom - Ceramic Wall Tile Grout	Gray Non-Fibrous Homogeneous	HA: 6	100% Non-fibrous (Other)	None Detected
10-7-13-Mortar <i>041815014-0013</i> <i>Limited material.</i>	Building 10 - Bathroom - Ceramic Floor Tile Mortar	White Non-Fibrous Homogeneous	HA: 7	100% Non-fibrous (Other)	None Detected
10-7-13-Grout <i>041815014-0013A</i>	Building 10 - Bathroom - Ceramic Wall Tile Grout	Gray Non-Fibrous Homogeneous	HA: 7	100% Non-fibrous (Other)	None Detected
10-7-14-Mortar <i>041815014-0014</i>	Building 10 - Bathroom - Ceramic Floor Tile Mortar	White Non-Fibrous Homogeneous	HA: 7	100% Non-fibrous (Other)	None Detected
10-7-14-Grout <i>041815014-0014A</i>	Building 10 - Bathroom - Ceramic Wall Tile Grout	Gray Non-Fibrous Homogeneous	HA: 7	100% Non-fibrous (Other)	None Detected
10-8-15-Mortar <i>041815014-0015</i>	Building 10 - Kitchen - Ceramic Wall Tile Mortar	White Non-Fibrous Homogeneous	HA: 8	100% Non-fibrous (Other)	None Detected
10-8-15-Grout <i>041815014-0015A</i>	Building 10 - Kitchen - Ceramic Wall Tile Grout	Gray Non-Fibrous Homogeneous	HA: 8	100% Non-fibrous (Other)	None Detected
10-8-16-Mortar <i>041815014-0016</i>	Building 10 - Kitchen - Ceramic Wall Tile Mortar	White Non-Fibrous Homogeneous	HA: 8	100% Non-fibrous (Other)	None Detected
10-8-16-Grout <i>041815014-0016A</i>	Building 10 - Kitchen - Ceramic Wall Tile Grout	Gray Non-Fibrous Homogeneous	HA: 8	100% Non-fibrous (Other)	None Detected
10-9-17 <i>041815014-0017</i> <i>Grout only present.</i>	Building 10 - Ceramic Floor Tile Mortar	Gray Non-Fibrous Homogeneous	HA: 9	100% Non-fibrous (Other)	None Detected
10-9-18 <i>041815014-0018</i>	Building 10 - Ceramic Floor Tile Mortar	Gray Non-Fibrous Homogeneous	HA: 9	100% Non-fibrous (Other)	None Detected

Initial report from: 05/22/2018 07:38:00



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974


<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041815014
Customer ID: TRCN34
Customer PO: E2177122
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
10-10-19 <i>041815014-0019</i>	Building 10 - Walls - Applied Texture on Walls	White Non-Fibrous Homogeneous	HA: 10	100% Non-fibrous (Other)	None Detected
10-10-20 <i>041815014-0020</i>	Building 10 - Walls - Applied Texture on Walls	White Non-Fibrous Homogeneous	HA: 10	100% Non-fibrous (Other)	None Detected
10-10-21 <i>041815014-0021</i>	Building 10 - Walls - Applied Texture on Walls	White Non-Fibrous Homogeneous	HA: 10	100% Non-fibrous (Other)	None Detected
10-10-22 <i>041815014-0022</i>	Building 10 - Walls - Applied Texture on Walls	White Non-Fibrous Homogeneous	HA: 10	100% Non-fibrous (Other)	None Detected
10-10-23 <i>041815014-0023</i>	Building 10 - Walls - Applied Texture on Walls	White Non-Fibrous Homogeneous	HA: 10	100% Non-fibrous (Other)	None Detected
10-10-24 <i>041815014-0024</i>	Building 10 - Walls - Applied Texture on Walls	White Non-Fibrous Homogeneous	HA: 10	100% Non-fibrous (Other)	None Detected
10-10-25 <i>041815014-0025</i>	Building 10 - Walls - Applied Texture on Walls	White Non-Fibrous Homogeneous	HA: 10	100% Non-fibrous (Other)	None Detected
10-11-26 <i>041815014-0026</i>	Building 10 - Exterior - Exterior Siding	Gray/Tan/White Fibrous Homogeneous	HA: 11	60% Cellulose 40% Non-fibrous (Other)	None Detected
10-11-27 <i>041815014-0027</i>	Building 10 - Exterior - Exterior Siding	Gray/Tan/White Fibrous Homogeneous	HA: 11	65% Cellulose 35% Non-fibrous (Other)	None Detected

Analyst(s) _____
 Adam Gart (20)
 John Flanagan (15)


 Benjamin Ellis, Laboratory Manager
 or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 05/22/2018 07:38:00



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only)

041815014

2018 MAY 18 AM 10:41

EMSL Analytical, Inc.
14 Broad St.

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX (781) 682-2207

Company: Terracon		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 2147 Riverchase Office Road		Third Party Billing requires written authorization from third party	
City: Birmingham	State/Province: AL	Zip/Postal Code: 35244	Country: US
Report To (Name): Stephen Howard		Telephone #: 205-942-1289	
Email Address: stephen.howard@terracon.com		Fax #: 205-942-1266	Purchase Order:
Project Name/Number: E2177122 Building 10		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: GA		Connecticut Samples: Commercial	Residential

Turnaround Time (TAT) Options* - Please Check

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

*For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ 8hr. TWA TEM - Air <input type="checkbox"/> 4.4.5hr TAT(AHERA ONLY) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Water Fibers $\geq 10\mu m$ <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	PLM - Bulk <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> NYS 198.1 (friable-NY) <input type="checkbox"/> NYS 198.6 (non-friable-NY) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)	TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> EPA Reg. 1 Screening Protocol (Qualitative) Other:
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Lead (Pb) Flame Atomic Absorption <input type="checkbox"/> Chips SW846-7000B or AOAC 974.02 <input type="checkbox"/> Soil SW846-7000B/7420 <input type="checkbox"/> Air NIOSH 7082 <input type="checkbox"/> Wastewater SM3111B or SW846-7000B/7420 <input type="checkbox"/> ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> non ASTM Wipe SW846-7000B/7420 <input type="checkbox"/> TCLP SW846-1311/7420/SM 3111B Graphite Furnace Atomic Absorption <input type="checkbox"/> Soil SW846-7421 <input type="checkbox"/> Wastewater EPA 200.9 <input type="checkbox"/> Air NIOSH 7105 <input type="checkbox"/> Drinking Water EPA 200.9	ICP <input type="checkbox"/> Air NIOSH 7300 Modified <input type="checkbox"/> non ASTM Wipe SW846-6010B or C <input type="checkbox"/> ASTM Wipe SW846-6010B or C <input type="checkbox"/> Soil SW846-6010 B or C <input type="checkbox"/> Waste Water SW846-6010B or C <input type="checkbox"/> TCLP SW846-6010B or C Other: <input type="checkbox"/>	Materials Science <input type="checkbox"/> Common Particle ID (large particles) <input type="checkbox"/> Full Particle ID (environmental dust) <input type="checkbox"/> Basic Material ID (solids) <input type="checkbox"/> Advanced Material ID <input type="checkbox"/> Physical Testing (Tensile, Compression) <input type="checkbox"/> Combustion-by-products (soot, char, etc.) <input type="checkbox"/> X-Ray Fluorescence (elem. analysis) <input type="checkbox"/> X-Ray Diffraction (Crystalline Part.) <input type="checkbox"/> MMVF's (Fibrous glass, RCF's) <input type="checkbox"/> Particle Size (sieve/microscopy/laser) <input type="checkbox"/> Combustible Dust <input type="checkbox"/> Petrographic Examination Other: <input type="checkbox"/>
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Microbiology Wipe and Bulk Samples <input type="checkbox"/> Mold & Fungi - Direct Examination <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi Culture (Genus & Species) <input type="checkbox"/> Bacterial Count & ID (Up to Three Types) <input type="checkbox"/> Bacterial Count & ID (Up to Five Types) <input type="checkbox"/> MRSA <input type="checkbox"/> Pseudomonas aeruginosa Water Samples <input type="checkbox"/> Total Coliform & E.coli (P/A) <input type="checkbox"/> Fecal Coliform (SM 9222D) <input type="checkbox"/> Sewage Screen <input type="checkbox"/> Heterotrophic Plate Count (SM 9215)	Air Samples <input type="checkbox"/> Mold & Fungi (Spore Trap) <input type="checkbox"/> Mold & Fungi Culture (Genus Only) <input type="checkbox"/> Mold & Fungi (Genus & Species) <input type="checkbox"/> Bacterial Culture & ID (Up to Three Types) <input type="checkbox"/> Bacterial Culture & ID (Up to Five Types) <input type="checkbox"/> Endotoxin Testing Real Time Q-PCR (See Analytical Guide for Code) Code: Legionella <input type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 Other: <input type="checkbox"/>	IAQ Nuisance Dust: NIOSH <input type="checkbox"/> 0500 <input type="checkbox"/> 0600 Airborne Dust: <input type="checkbox"/> PM10 <input type="checkbox"/> TSP Silica Analysis: <input type="checkbox"/> All Species Silica Analysis - Single Species <input type="checkbox"/> Alpha Quartz <input type="checkbox"/> Cristobalite <input type="checkbox"/> Tridymite <input type="checkbox"/> HVAC Efficiency <input type="checkbox"/> Carbon Black <input type="checkbox"/> Airborne Oil Mist Radon Testing: Call for Kit and COC Other: <input type="checkbox"/>
---	---	--

**Comments/Special Instructions: Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order.

Client Sample #'s	Total # of Samples: 2750
Relinquished (Client): <i>[Signature]</i>	Date: 5/17/18
Received (Lab): <i>[Signature]</i>	Date: 5/18/18
	Time: 9:20

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

[Handwritten Signature] 5/18/18 9:20



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Chain of Custody

EMSL Order Number (Lab Use Only)

041815014
DINNAMINSON, N.J.

2018 MAY 18 AM 10:41

East Weymouth, MA 02189
PHONE: (781) 682-2206
FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (A) HA # (Bulk)	Date/Time Sampled
10-1-1	2x2 Ceiling Tile w/ Pinholes	Building 10	5/5/18
10-1-2	↓		
10-2-3	2x2 Ceiling Tile w/ Pinholes & Fissures		
10-2-4	↓		
10-3-5	Patterned Carpet Glue		
10-3-6	↓		
10-4-7	Gray Carpet Glue		
10-4-8	↓		
10-5-9	Drywall		
10-5-10	↓		
10-6-11	Ceramic Wall Tile Mortar, Bathroom		
10-6-12	↓		
10-7-13	Ceramic Floor Tile Mortar, Bathroom		
10-7-14	↓		
10-8-15	Ceramic Wall Tile Mortar, Kitchen		
10-8-16	↓		
<p>*Comments/Special Instructions: Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US Attention: Stephen Howard Phone. 205-443-5224 Email stephen.howard@terracon.com Purchase Order</p>			<p>RECEIVED EMSL DINNAMINSON, N.J. 2018 MAY 18 AM 11:35</p>

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody
EMSL Order Number (Lab Use Only):

041815014
CINNAMINSON, N.J.

2010 MAY 18 AM 10:41

EMSL Analytical, Inc.
814 Broad St.

East Weymouth, MA 02189
PHONE (781) 682-2206
FAX: (781) 682-2207

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
10-9-17	Main Ceramic Floor Tile Mortar	Building 10	5/5/18
10-9-18	↓		
10-10-19	Applied Texture on Walls		
10-10-20	↓		
10-10-21	↓		
10-10-22	↓		
10-10-23	↓		
10-10-24	↓		
10-10-25	↓		
10-11-26	Exterior Siding		
10-11-27	↓		

RECEIVED
EMSL
CINNAMINSON, N.J.
2010 MAY 18 AM 11:35

***Comments/Special Instructions:**
Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
Attention: Stephen Howard Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order: 201805420

CustomerID: TRCN34

CustomerPO: E2177122

ProjectID:

Attn: **Stephen Howard**
Terracon
2147 Riverchase Office Road
Birmingham, AL 35244

Phone: (205) 942-1289
Fax: (205) 942-1266
Received: 05/18/18 10:00 AM
Collected: 5/5/2018

Project: **E2177122**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
1-LBP-1 Site: Building 1, Concrete Curb / Yellow	201805420-0001	5/5/2018	5/21/2018	0.2514 g	5.4 % wt
1-LBP-2 Site: Building 1, Concrete Block / White	201805420-0002	5/5/2018	5/21/2018	0.2628 g	<0.0080 % wt
1-LBP-3 Site: Building 1, Metal Window Frame / Blue	201805420-0003	5/5/2018	5/21/2018	0.2520 g	0.12 % wt
1-LBP-4 Site: Building 1, Metal Support Column / Green	201805420-0004	5/5/2018	5/21/2018	0.2732 g	11 % wt
1-LBP-5 Site: Building 1, Metal Support Column / Blue	201805420-0005	5/5/2018	5/21/2018	0.2569 g	15 % wt
1-LBP-6 Site: Building 1, Concrete Wall / White	201805420-0006	5/5/2018	5/21/2018	0.2500 g	0.015 % wt
2-LBP-1 Site: Building 2, Metal Door / Blue	201805420-0007	5/5/2018	5/21/2018	0.2750 g	19 % wt
2-LBP-2 Site: Building 2, Metal Support Column / White	201805420-0008	5/5/2018	5/21/2018	0.2526 g	17 % wt
2-LBP-3 Site: Building 2, Metal Trim / Yellow	201805420-0009	5/5/2018	5/21/2018	0.2554 g	0.019 % wt
2-LBP-4 Site: Building 2, Metal Support Column / Blue	201805420-0010	5/5/2018	5/21/2018	0.2643 g	19 % wt
3-LBP-1 Site: Building 3, Metal Door / Black	201805420-0011	5/5/2018	5/21/2018	0.2544 g	0.13 % wt
3-LBP-2 Site: Building 3, Metal Door / Blue/Red	201805420-0012	5/5/2018	5/21/2018	0.2510 g	0.037 % wt
3-LBP-3 Site: Building 3, Metal Support Column / Blue	201805420-0013	5/5/2018	5/21/2018	0.2658 g	0.15 % wt
3-LBP-4 Site: Building 3, Metal Support Column / Blue	201805420-0014	5/5/2018	5/21/2018	0.2711 g	0.27 % wt
3-LBP-5 Site: Building 3, Handrail / Yellow	201805420-0015	5/5/2018	5/21/2018	0.2560 g	2.1 % wt

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 05/22/2018 10:01:47



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order: 201805420

CustomerID: TRCN34

CustomerPO: E2177122

ProjectID:

Attn: **Stephen Howard**
Terracon
2147 Riverchase Office Road
Birmingham, AL 35244

Phone: (205) 942-1289
Fax: (205) 942-1266
Received: 05/18/18 10:00 AM
Collected: 5/5/2018

Project: **E2177122**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
4-LBP-1 Site: Building 4, Concrete Floor / Red	201805420-0016	5/5/2018	5/21/2018	0.2708 g	<0.0080 % wt
4-LBP-2 Site: Building 4, Metal Support Column / Yellow	201805420-0017	5/5/2018	5/21/2018	0.2543 g	1.1 % wt
4-LBP-3 Site: Building 4, Metal Support Column / White	201805420-0018	5/5/2018	5/21/2018	0.1709 g	0.34 % wt
4-LBP-4 Site: Building 4, Concrete Block / White	201805420-0019	5/5/2018	5/21/2018	0.2507 g	<0.0080 % wt
4-LBP-5 Site: Building 4, Metal Bollard / Red	201805420-0020	5/5/2018	5/21/2018	0.2528 g	0.098 % wt
5-LBP-1 Site: Building 5, Metal Drain Pipe / White	201805420-0021	5/5/2018	5/21/2018	0.2504 g	0.33 % wt
5-LBP-2 Site: Building 5, Metal Window Frame / White	201805420-0022	5/5/2018	5/21/2018	0.2555 g	0.020 % wt
5-LBP-3 Site: Building 5, Metal Conduit / White	201805420-0023	5/5/2018	5/21/2018	0.2555 g	0.47 % wt
5-LBP-4 Site: Building 5, Concrete Block / White	201805420-0024	5/5/2018	5/21/2018	0.2553 g	0.026 % wt
5-LBP-5 Site: Building 5, Metal Door/Frame / White	201805420-0025	5/5/2018	5/21/2018	0.2614 g	0.91 % wt
6-LBP-1 Site: Building 6, Metal Trim / Yellow	201805420-0026	5/5/2018	5/21/2018	0.2513 g	0.015 % wt
6-LBP-2 Site: Building 6, Concrete Foundation / Yellow	201805420-0027	5/5/2018	5/21/2018	0.2790 g	8.6 % wt
6-LBP-3 Site: Building 6, Metal Handrail / Yellow	201805420-0028	5/5/2018	5/21/2018	0.2520 g	2.7 % wt
6-LBP-4 Site: Building 6, Metal Support Column / Gray	201805420-0029	5/5/2018	5/21/2018	0.2793 g	13 % wt
7-LBP-1 Site: Building 7, Concrete Foundation / Yellow	201805420-0030	5/5/2018	5/21/2018	0.2548 g	6.9 % wt

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 05/22/2018 10:01:47



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order:	201805420
CustomerID:	TRCN34
CustomerPO:	E2177122
ProjectID:	

Attn: **Stephen Howard**
Terracon
2147 Riverchase Office Road
Birmingham, AL 35244

Phone: (205) 942-1289
Fax: (205) 942-1266
Received: 05/18/18 10:00 AM
Collected: 5/5/2018

Project: **E2177122**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
7-LBP-2 Site: Building 7, Metal Handrail / Yellow	201805420-0031	5/5/2018	5/21/2018	0.2501 g	0.26 % wt
7-LBP-3 Site: Building 7, Metal Trim / Dark Yellow	201805420-0032	5/5/2018	5/21/2018	0.2681 g	7.2 % wt
7-LBP-4 Site: Building 7, Metal Support Column / Gray	201805420-0033	5/5/2018	5/21/2018	0.2508 g	21 % wt
8-LBP-1 Site: Building 8, Concrete Foundation / Yellow	201805420-0034	5/5/2018	5/21/2018	0.2528 g	5.9 % wt
8-LBP-2 Site: Building 8, Metal Trim / Yellow	201805420-0035	5/5/2018	5/21/2018	0.2617 g	0.87 % wt
8-LBP-3 Site: Building 8, Concrete Foundation / Dark Yellow	201805420-0036	5/5/2018	5/21/2018	0.2646 g	0.39 % wt
8-LBP-4 Site: Building 8, Metal Support Column / Gray	201805420-0037	5/5/2018	5/21/2018	0.2598 g	3.3 % wt
9-LBP-1 Site: Building 9, Concrete Foundation / Yellow	201805420-0038	5/5/2018	5/21/2018	0.2510 g	9.3 % wt
9-LBP-2 Site: Building 9, Metal Trim / Yellow	201805420-0039	5/5/2018	5/21/2018	0.2766 g	8.1 % wt
9-LBP-3 Site: Building 9, Metal Support Column / Gray	201805420-0040	5/5/2018	5/21/2018	0.2548 g	3.7 % wt
9-LBP-4 Site: Building 9, Metal Support Column / Green	201805420-0041	5/5/2018	5/21/2018	0.2567 g	0.024 % wt
10-LBP-1 Site: Building 10, Concrete Sidewalk / Yellow	201805420-0042	5/5/2018	5/21/2018	0.2503 g	2.3 % wt
10-LBP-2 Site: Building 10, Interior Concrete Block / Brown	201805420-0043	5/5/2018	5/21/2018	0.2508 g	<0.0080 % wt
10-LBP-3 Site: Building 10, Concrete Ceiling / White	201805420-0044	5/5/2018	5/21/2018	0.2595 g	<0.0080 % wt
10-LBP-4 Site: Building 10, Concrete Ceiling / Brown	201805420-0045	5/5/2018	5/21/2018	0.2526 g	<0.0080 % wt

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 05/22/2018 10:01:47



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order:	201805420
CustomerID:	TRCN34
CustomerPO:	E2177122
ProjectID:	

Attn: **Stephen Howard**
Terracon
2147 Riverchase Office Road
Birmingham, AL 35244

Phone: (205) 942-1289
 Fax: (205) 942-1266
 Received: 05/18/18 10:00 AM
 Collected: 5/5/2018

Project: E2177122

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
10-LBP-5	201805420-0046	5/5/2018	5/21/2018	0.2545 g	0.014 % wt
Site: Building 10, Exterior Concrete Overhang / White					

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 05/22/2018 10:01:47



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201805420

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company: Terracon		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: 2147 Riverchase Office Road		Third Party Billing requires written authorization from third party		
City: Birmingham	State/Province: AL	Zip/Postal Code: 35244	Country: US	
Report To (Name): Stephen Howard		Telephone #: 205-942-1289		
Email Address: stephen.howard@terracon.com		Fax #: 205-942-1266	Purchase Order:	
Project Name/Number: E2177122		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: GA		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
Turnaround Time (TAT) Options* - Please Check				
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	<input checked="" type="checkbox"/> 72 Hour
<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week		
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300/NIOSH 7303	ICP-OES	0.5 µg/filter	<input type="checkbox"/>
Wipe* ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *if no box checked, non-ASTM Wipe assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other: <input type="checkbox"/>				
Name of Sampler:		Signature of Sampler:		
Sample #	Location	Volume/Area	Date/Time Sampled	
1-LBP-1	Building 1, Concrete Curb	Yellow	5/5/18	
1-LBP-2	Building 1, Concrete Block	White	↓	
Client Sample #s		Total # of Samples:		46
Relinquished (Client):		Date: 5/17/18	Time:	
Received (Lab):		Date: 5/15/18	Time: 10AM	EMSL Rida
Comments:				
Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US Attention: Stephen.howard@terracon.com Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:				



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LEAD (Pb) CHAIN OF CUSTODY
EMSL ORDER ID (Lab Use Only):

201805420

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled	
3 1-LBP-3	Building 1, Metal Window Frame	Blue	5/5/18	
4 1-LBP-4	Building 1, Metal Support Column	Green	↓	
5 1-LBP-5	Building 1, Metal Support Column	Blue		
6 1-LBP-6	Building 1, Concrete Wall	White		
7 2-LBP-1	Building 2, Metal Door	Blue		
8 2-LBP-2	Building 2, Metal Support Column	White		
9 2-LBP-3	Building 2, Metal Trim	Yellow		
10 2-LBP-4	Building 2, Metal Support Column	Blue		
11 3-LBP-1	Building 3, Metal Door	Black		
12 3-LBP-2	Building 3, Metal Door	Blue/Red		
13 3-LBP-3	Building 3, Metal Support Column	Blue		
14 3-LBP-4	Building 3, Metal Support Column	Blue		
15 3-LBP-5	Building 3, Handrail	Yellow		
16 4-LBP-1	Building 4, Concrete Floor	Red		
17 4-LBP-2	Building 4, Metal Support Column	Yellow		
18 4-LBP-3	Building 4, Metal Support Column	White		
19 4-LBP-4	Building 4, Concrete Block	White		
20 4-LBP-5	Building 4, Metal Bollard	Red		
Comments/Special Instructions:				
BillTo: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US Attention: Stephen.howard@terracon.com Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:				



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FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
21 5-LBP-1	Building 5, Metal Drain Pipe	White	5/5/18
22 5-LBP-2	Building 5, Metal Window Frame	White	↓
23 5-LBP-3	Building 5, Metal Conduit	White	
24 5-LBP-4	Building 5, Concrete Block	White	
25 5-LBP-5	Building 5, Metal Door/Frame	Blue white per ^{Howard} Stephen Stretcher -al	
26 6-LPB-1	Building 6, Metal Trim	Yellow	
27 6-LBP-2	Building 6, Concrete Foundation	Yellow	↓
28 6-LBP-3	Building 6, Metal Handrail	Yellow	
29 6-LBP-4	Building 6, Metal Support Column	Gray	
30 7-LBP-1	Building 7, Concrete Foundation	Yellow	
31 7-LBP-2	Building 7, Metal Handrail	Yellow	
32 7-LBP-3	Building 7, Metal Trim	Dark Yellow	
33 7-LBP-4	Building 7, Metal Support Column	Gray	
34 8-LBP-1	Building 8, Concrete Foundation	Yellow	
35 8-LBP-2	Building 8, Metal Trim	Yellow	
36 8-LBP-3	Building 8, Concrete Foundation	Dark Yellow	
37 8-LBP-4	Building 8, Metal Support Column	Gray	
38 9-LBP-1	Building 9, Concrete Foundation	Yellow	

Comments/Special Instructions:

Bill To: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
Attention: Stephen.howard@terracon.com Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:



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LEAD (Pb) CHAIN OF CUSTODY

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200 Route 130 North

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675

FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
39 9-LBP-2	Building 9, Metal Trim	Yellow	5/5/18
40 9-LBP-3	Building 9, Metal Support Column	Gray	↓
41 9-LBP-4	Building 9, Metal Support Column	Green	
42 10-LBP-1	Building 10, Concrete Sidewalk	Yellow	
43 10-LBP-2	Building 10, Interior Concrete Block	Brown	
44 10-LPB-3	Building 10, Concrete Ceiling	White	
45 10-LBP-4	Building 10, Concrete Ceiling	Brown	
46 10-LBP-5	Building 10, Exterior Concrete Overhang	White	

Comments/Special Instructions:

BillTo: Terracon Consultants, Inc., 110 12th Street North, Birmingham, AL, 35203, US
 Attention: Stephen.howard@terracon.com Phone: 205-443-5224 Email: stephen.howard@terracon.com Purchase Order:

APPENDIX H
PHOTOGRAPHS



Photo #1 View of office area at the west end of Warehouse # 1 (Building1).



Photo #2 View (south side) of Warehouse #1 (Building 1).



Photo #3 Example view of front loading area (south side) of Warehouse #1 (Building 1).



Photo #4 Example view of office area interior, Warehouse #1 (Building 1).



Photo #5 Example view of vendor area & walk-in cold storage units, Warehouse #1 (Building 1).



Photo #6 Example view of walk-in cold storage unit interior w/ asbestos-containing insulation panels, Warehouse #1 (Building1).



Photo #7 Example view of asbestos-containing 12x12 brown VCT & black mastic in office area, Warehouse #1 (Building 1).



Photo #8 Example view of 12x12 white VCT & asbestos-containing black mastic in office area, Warehouse #1 (Building 1).



Photo #9 Example view of asbestos-containing exterior door caulk associated with the office area, Warehouse #1 (Building 1).



Photo #10 View of Warehouse #2 (Building 2), west end w/ bathrooms.



Photo #11 Example view of front loading area (south side) of Warehouse #2 (Building 2).



Photo #12 Example view of bathroom at west end of Warehouse #2 (Building 2) w/ asbestos-containing ceramic wall tile mortar.



Photo #13 Example view of vendor area and office, Warehouse #2 (Building 2).



Photo #14 Example view of walk-in cold storage unit w/ asbestos-containing insulation panels in Warehouse #2 (Building 2).



Photo #15 View (south side) of Warehouse #3 (Building 3).



Photo #16 Example view of loading dock (north side), Warehouse #3 (Building 3).



Photo #17 Example view of vendor area office w/ asbestos-containing 2x2 ceiling tile, Warehouse #3 (Building 3).

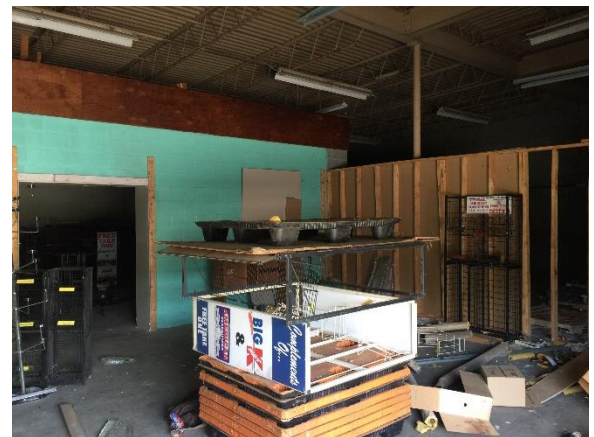


Photo #18 Example view of vendor area, Warehouse #3 (Building 3).



Photo #19 Example view of walk-in cold storage unit w/ asbestos-containing insulation panels, Warehouse #3 (Building 3).



Photo #20 Example view of bathroom in vendor area w/ asbestos-containing ceramic wall tile mortar, Warehouse #3 (Building 3).



Photo #21 View (west side) of Warehouse #4 (Building 4).



Photo #22 View (east side) of Warehouse #4 (Building 4).



Photo #23 Example view of 12x12 blue-speckled VCT w/ asbestos-containing black mastic, office area, Warehouse #4 (Building 4).

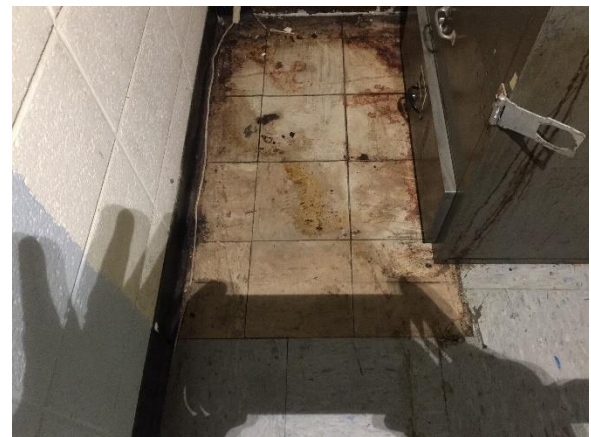


Photo #24 Example view of asbestos-containing 9x9 VCT and black mastic, office area, Warehouse #4 (Building 4).



Photo #25 Example view of main storage area, Warehouse #4 (Building 4).



Photo #26 Example view walk-in cold storage w/ asbestos-containing insulation panels, Warehouse #4 (Building 4).



Photo #27 Example view of asbestos-containing mudded thermal pipe insulation, office area mechanical room, Warehouse #4 (Building 4).



Photo #28 Example view of asbestos-containing tar coating on foil HVAC insulation, office area mechanical room, Warehouse #4 (Building 4).



Photo #29 Example view of bathroom w/ asbestos-containing ceramic wall tile mortar, office area, Warehouse #4 (Building 4).



Photo #30 View of former Columbus Towing & Recovery (Building 5).



Photo #31 Interior view of former Columbus Towing & Recovery (Building 5).



Photo #32 Example view of bathroom w/ asbestos-containing ceramic wall tile mortar, former Columbus Towing & Recovery (Building 5).



Photo #33 View (north side) of Loading Area #4 (Building 6) and bathroom at west end.

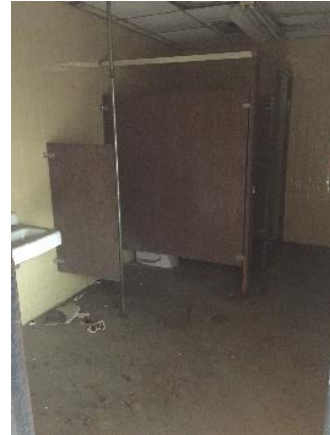


Photo #34 Example view of bathroom w/ asbestos-containing ceramic wall tile mortar, Loading Area #4 (Building 6).



Photo #35 Example view of Loading Area #3 (Building 7).



Photo #36 View (south side) of Loading Area #2 (Building 8).



Photo #37 View of office at west end of Loading Area # 2 (Building 8).



Photo #38 Interior view of office at west end of Loading Area # 2 (Building 8).



Photo #39 View (south side) of Loading Area #1 (Building 9).



Photo #40 View (south & west sides) of restaurant (Building 10).



Photo #41 Example view of entrance/lobby area of restaurant (Building 10).



Photo #42 Example view of dining area of restaurant (Building 10).



Photo #43 Example view of kitchen area of restaurant (Building 10).



Photo #44 View of mechanical closet in restaurant (Building 10).



Photo #45 Example view of cooling unit in walk-in cold storage units in site buildings.



Photo #46 Example view of mercury-containing thermostat in office area, Warehouse #1 (Building 1).

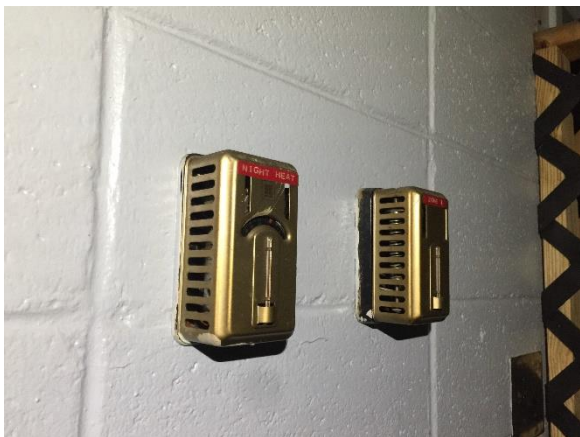


Photo #47 Example view of thermostats w/ mercury-containing thermometers in Warehouse #4 (Building 4).



Photo #48 View of mercury-containing thermometer in Warehouse #4 (Building 4).