

BIDDING REQUIREMENTS

Supplementary Instructions to Bidders	SITB-1 - 3
---	------------

DIVISION 00 PROCEDURAL AND CONTRACTING REQUIREMENTS

Sect. 001500	Special Requirements	1 - 3
--------------	----------------------------	-------

DIVISION 01 GENERAL REQUIREMENTS

Sect. 012600	Contract Modification Procedures.....	012600-1 - 3
013100	Project Management & Coordination.....	013100-1 - 6
013300	Submittal Procedures.....	013300-1 - 7
017300	Execution.....	017300-1 - 6
017419	Construction Waste Management & Disposal.....	017419-1 - 2
017700	Closeout Procedures	017700-1 - 6
017839	Project Record Documents	017839-1 - 3

DIVISION 02 SITE CONSTRUCTION

Sect. 022200	Building Demolition.....	022200-1 - 7
023100	Earthwork & Seeding	023100-1 - 8

APPENDIX" A" SWPPP APPLICATION & ASBESTOS REPORT

SWPPP Application	1 - 8
Pre-demolition Asbestos Identification Report	1 - 93

END TABLE OF CONTENTS.

Project Manual

IFB No. 18-32

Project Number **17-068**

New Milford Elementary School- Building Demolition

at 2128 New Milford Road, New Milford

for

Rockford Public Schools #205
Rockford, Illinois



**RICHARD L. JOHNSON
ASSOCIATES | ARCHITECTS**

4703 Charles Street, Rockford, Illinois 61108

P: 815-398-1231, F: 815-398-1280

BIDDING REQUIREMENTS

SECTION SITB
SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

GENERAL

- A. The standard American Institute of Architects (AIA) Document A701, "Instructions to Bidders," 2007 Edition, attached hereto, shall apply in full except for the modifications and supplementary instructions specified in this Section.
- B. Bids will be accepted only from Bidders who have secured the Drawings and Specifications directly from the Owner.
- C. Owner requests Stipulated Sum Base Bids for work contemplated, as covered by the Project Manual and accompanying Drawings.
- D. The laws of Illinois shall govern the solicitation and award of the Contract.

2.1.5 PERMITS AND FEES

- A. The Owner will pay for all permits and fees.
- B. By submitting a Bid, the Bidder represents that the Bid includes all permits, other than the building permit, required by all authorities having jurisdiction for any branches of the work.
- C. The Owner will obtain the Regional Office of Education building permit.

2.1.6 TAXES

- A. Sales Tax: According to Tax Rule #15 (Illinois Retailer's Occupational Tax, 2-1-69), supplies and materials used on this project are exempt from the Retailer's Occupational Tax and therefore said tax shall not be included in bid amounts.

2.1.7 EMPLOYMENT AND WAGES PAID

- A. Wage Rules: Each craft, type of worker and mechanic needed to execute the Contract shall be paid the prevailing wage rate for the locality in which the work is performed, in accordance with all federal laws and laws of the State as well as ordinances and regulations applicable to the work hereunder and having force of law.
- B. If, during the course of the Contract, the Department of Labor revises the prevailing wage rates, the Contractor shall have the sole responsibility and duty to ensure that wages paid, whether to employees of the Contractor or any subcontractor, are paid according to the revised prevailing rates. Revisions of the prevailing wage rates shall not be cause for an increase in the Contract Sum.

3.2.5 SITE VISIT

- A. All prospective Contractors are to visit the site to familiarize themselves the conditions under which the project will be bid and performed.
- B. Contractors must acknowledge having visited the site by so noting on the appropriate place contained on the Bid Form.

4.1.8 TIME OF PERFORMANCE

- A. All site construction may begin May 21, 2018 and shall be complete no later than August 17, 2018.

4.2.4 BID SECURITY

- A. Bid Security in the amount of 5% of the Base Bid, payable to the Owner, shall be submitted with the Bid in the form of a certified check, cashier's check, bank draft, or bid bond from a bonding company with a Best rating of "B" or better.

4.3.1 RECEIVING BIDS

- A. All Bids shall be submitted in a sealed envelope boldly labeled with the words "SEALED BID ENCLOSED FOR NEW MILFORD SCHOOL BUILDING DEMOLITION FOR RPS#205."
- B. Bids received before the time set for receipt of Bids will be securely kept unopened. No responsibility will attach to the Owner or the Architect for premature opening of a Bid not properly identified.
- C. The Owner will decide when the specified time for receipt and opening of Bids has arrived.

5.2.2 REJECTION OF BIDS

- A. The Contract will be awarded to the lowest qualified bidder complying with the conditions of the Bidding Documents, provided that the lowest bid submitted is reasonable and that it is to the interest of the Owner to accept it.
- B. The Owner reserves the right to reject any and all bids and to waive any irregularities in bids received whenever such rejection or waiver is in the interest of the Owner. The Owner also reserves the right to reject the bid of any bidder who has previously failed to perform properly or complete on time contracts of a similar nature; who is not in a position to perform the contract; or who has habitually and without just cause neglected the payment of bills or otherwise disregarded any obligation to subcontractors, material suppliers or employees. In determining the successful bidder, the following elements, in addition to those mentioned above, will be considered: Whether the bidder involved (a) maintains a permanent place of business; (b) has adequate plant equipment to do the work properly and expeditiously; (c) has a suitable financial status to meet the obligations incidental to the work; and (d) has appropriate technical experience. Also, see 6.1.2. QUALIFICATIONS OF BIDDER.
- C. Negligence on the part of the Bidder in preparing his Bid shall confer no right of withdrawal or modification of his Bid after the Bid has been opened.

- D. Bidders may be required to cooperate with the Owner and Architect by providing a detailed breakdown of prices bid in order to show, in the manner and form required by the Architect, the division of costs between the several divisions of the Work.
- E. In case of a discrepancy between the prices quoted in words and those quoted in numbers, the prices quoted in words shall govern.

5.3.1 AWARD OF CONTRACT

- A. The bidder to whom the award is to be made will be notified at the earliest possible date.

6.1.2 QUALIFICATIONS OF BIDDER

- A. Bidders shall submit, to the Architect one week prior to Bid Due Date, a completed AIA Document A305, "Contractor's Qualification Statement" or a current IDOT "Certificate of Eligibility".
- B. The Owner may make such further investigations of bidders as he deems necessary to determine the ability of a bidder to perform the work, and such bidder shall furnish to the Owner all such data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted, or investigation of such bidder, fails to satisfy the Owner that such bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated.
- C. In compliance with State Statutes, the low two (2) bidders shall file a statement of "Bidder's Proof of Responsibility" on firm's letterhead, with the Architect, not later than three (3) days after the opening of bids, unless a current statement is already on file with the Architects.
 - 1. Said statement shall contain:
 - a. Bidder's condensed financial statement, listing total assets, total liabilities, net worth, and cash in bank.
 - b. Résumé of organization's type and history, with Owner's name and address.
 - c. List of main items of construction plant and equipment.
 - d. List of jobs completed within last three years, listing names, contract amounts, and architects' names.
 - 2. Said statement shall be sworn to before an officer authorized by law to administer oaths. No bids will be considered without compliance as specified, by order of the Owner.

9.1 SCHEDULE OF PREVAILING WAGE RATES

- D. A Schedule of the Prevailing Wage Rates for Winnebago County can be obtained for current and future months from the State of Illinois Dept. of Labor.

END SUPPLEMENTARY INSTRUCTIONS TO BIDDERS.

DIVISION 1 – GENERAL REQUIREMENTS

SECTION 01500
SPECIAL REQUIREMENTS

CONTENTS

1. JOB CONDITIONS & OPERATIONS

- A. The Contractor and each subcontractor and material supplier shall inform himself of the conditions relating to execution of his work. Neglect of this requirement will not be accepted as cause for additional compensation and/or additional time for completion.
- B. Contractor shall enforce all rules that Architect or Owner may establish for conduct of workers on premises including the use of radios and like devices.
- C. No constructions shall be loaded with materials or equipment or otherwise loaded to invite damage.
- D. Existing drawings of the structure to be demolished, are available for viewing by interested Bidders on the School District's web site ftp://ftp.bhfx.net/rockford_public_schools. Type in User Name: RPS and Password: 205.

2. GRADES, LINES & LEVELS

- A. Contractor shall take measurements at site as required for the work and to locate existing utilities. Contractor shall contact the City, the County, the Owner and all utility companies to carefully review all records of exposed, concealed and buried points of connections, as to location, size, type, depth, operating characteristics, etc.

3. USE OF SITE

- A. Space limitations: No areas outside construction limits may be used for any purpose by contractors or subcontractors.
- B. Contractor shall confine equipment, storage of materials, parking and operations of workmen to the limits indicated or according to the directions of the Owner. Site storage space shall be confined to area of site.
- C. Areas used for parking, sheds, offices and storage shall be repaired before Final Inspection.
- D. No signs will be permitted on the site, except for signs identifying architect's, engineers' and contractors' names, signs related to the processes necessary to accomplish the Work, signs for protection of persons and property, signs required by law and signs otherwise approved by Owner.

4. CLEANING

- A. General Cleaning: The Contractor shall remove rubbish and debris from the site promptly as it accumulates. The Contractor shall perform an overall cleanup of the entire site as frequently as required.
- B. No burning of rubbish or debris will be allowed at site, nor shall debris be buried at the site. Do not dispose of wastes into streams or waterways.
- C. Contractor shall provide construction dumpsters, as required, for trash removal covered with lids or tarps securely fastened to prevent debris from blowing about site.
- D. Keep streets, paved parking areas and public roadways clean of dirt and mud tracked onto such surfaces by vehicles or equipment used or parked on construction site.
- E. Final Cleaning: Contractor shall see to it that the site is clean and free of foreign matter upon completion of the work, to the satisfaction of the Architect.
- F. Upon completion of the work, the Contractor and each subcontractor shall remove and dispose of all equipment and unused materials provided for his work.

5. PROTECTION

- A. The Contractor shall:
 - 1. Provide and maintain barricades, warning signs, chain-link fencing, planking, and guard lights as necessary for protection of curbs, sidewalks, streets and drives, adjoining property, the public, the Owner's employees and the new constructions.
 - 2. Use caution always to protect persons against injury resulting from job operations, equipment and materials moving onto and off the site, and standing equipment.
 - 3. Provide and maintain proper shoring and bracing for existing underground utilities, sewer, etc., encountered during excavation work, to protect them from collapse or other type of damage until such time as they are to be removed, or can be properly backfilled.
 - 4. Protect trees, shrubs, lawns, landscape work from damage, by providing guards and covering and maintaining plank covering over walks, drives, newly installed utility services, etc., to prevent damage by trucking or otherwise, including areas outside of grading and/or construction limits.
 - 5. Notify, in writing, the owners of property which interfere with work and arrange with them for disposition of such property.
- B. Contractor and each subcontractor shall protect his own materials, work and equipment not normally covered by above protection and shall execute work so as not to damage work of other trades.
- C. Any contractor or subcontractor causing damage to any of the Work shall have, at his own expense, the damaged work replaced or repaired to its original condition. Property damaged outside of Owner's property line shall be repaired in accordance with requirements of its owner or the authority having jurisdiction.

6. CONSTRUCTION TOILETS

- A. The Contractor shall furnish temporary toilet facilities for the use of all personnel engaged on the Work. Commercially serviced portable chemical units shall be used. Quantity shall be sufficient for the maximum number of workers engaged for any particular day.
- B. Toilet facilities shall be serviced at least twice weekly, including emptying of tanks, recharging of germicidal and deodorizing solutions, and scrubbing entire interior with a germicidal solution.

7. TEMPORARY STAIRS, LADDERS, RAMPS, RUNWAYS

- A. The Contractor shall provide and maintain temporary stairs, fixed ladders, ramps, chutes, and runways as required for proper execution of work by all trades.

8. TEMPORARY PARKING

- A. Construction personnel may park vehicles on site as directed by Owner.

9. TEMPORARY FIRE PROTECTION

- A. During demolition period, the Contractor shall provide and maintain adequate fire protection per the requirements of jurisdictional authorities, for demolition site. The Contractor shall also provide and maintain fire extinguishers and fire watches per the requirements of the Owner's facilities insurance company.

10. ASBESTOS REMOVAL

- A. Removal of asbestos products shall only be done in accordance with State and Federal guidelines, applicable EPA, NESHAPS, IDPH AND OSHA Regulations and by State approved asbestos removal contractor hired by the Owner.

END 01500

SECTION 012600

CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.

1.3 MINOR CHANGES IN THE WORK

- A. Architect will issue through Owner supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions."

1.4 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
 - 2. Within time specified in Proposal Request or 10 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include costs of labor and supervision directly attributable to the change.
 - d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

- B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect.
 - 1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
 - 2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - 3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - 4. Include costs of labor and supervision directly attributable to the change.
 - 5. Include an updated Contractor's construction schedule.

1.5 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Work Changes Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document G701.
- B. The combined overhead and profit included in the total cost to the Owner for a change in the Work shall be based on the following schedule:
 - 1. For the Contractor, for Work performed by the Contractor's own forces, twelve percent of the cost.
 - 2. For the Contractor, for Work performed by the Subcontractor's, five percent of the amount due the Subcontractors.
 - 3. For each Subcontractor involved, for Work performed by the Subcontractor's own forces, five percent of the cost.
 - 4. For each Subcontractor involved, for Work performed by the Subcontractor's Sub-subcontractors, five percent of the amount due the Sub-subcontractor.
 - 5. In order to facilitate checking of quotations for extras and credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, materials and Subcontracts. Labor and materials shall be itemized in the manner prescribed above. Where major cost items are Subcontracts, they shall be itemized also.

1.6 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Work Change Directive: Architect may issue a Construction Work Change Directive on AIA Document G714 Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.
 - 1. Construction Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.

- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
 - 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

END OF SECTION 012600

SECTION 013100

PROJECT MANAGEMENT & COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. Coordination drawings.
 - 2. Requests for Information (RFIs).
 - 3. Project meetings.
- B. Related Requirements:
 - 1. Section 011200 "Multiple Contract Summary" for a description of the division of work among separate contracts and responsibility for coordination activities not in this Section.
 - 2. Section 017300 "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.

1.3 DEFINITIONS

- A. RFI: Request from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

1.4 INFORMATIONAL SUBMITTALS

- A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:
 - 1. Name, address, and telephone number of entity performing subcontract or supplying products.
 - 2. Number and title of related Specification Section(s) covered by subcontract.
 - 3. Drawing number and detail references, as appropriate, covered by subcontract.

1.5 GENERAL COORDINATION PROCEDURES

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.
- B. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of Contractor's construction schedule.
 - 2. Preparation of the schedule of values.
 - 3. Installation and removal of temporary facilities and controls.
 - 4. Delivery and processing of submittals.
 - 5. Progress meetings.
 - 6. Preinstallation conferences.
 - 7. Project closeout activities.
 - 8. Startup and adjustment of systems.

1.6 COORDINATION DRAWINGS

- A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
 - 1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
 - a. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
 - b. Coordinate the addition of trade-specific information to the coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.

1.7 REQUESTS FOR INFORMATION (RFIs)

- A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
 - 1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
 - 2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
 - 1. Project name.
 - 2. Project number.
 - 3. Date.
 - 4. Name of Contractor.
 - 5. Name of Architect.
 - 6. RFI number, numbered sequentially.
 - 7. RFI subject.
 - 8. Specification Section number and title and related paragraphs, as appropriate.
 - 9. Drawing number and detail references, as appropriate.
 - 10. Field dimensions and conditions, as appropriate.
 - 11. Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 - 12. Contractor's signature.
 - 13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
- C. RFI Forms: AIA Document G716.
 - 1. Attachments shall be electronic files in Adobe Acrobat PDF format.
- D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
 - 1. The following Contractor-generated RFIs will be returned without action:
 - a. Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - c. Requests for approval of Contractor's means and methods.
 - d. Requests for coordination information already indicated in the Contract Documents.
 - e. Requests for adjustments in the Contract Time or the Contract Sum.
 - f. Requests for interpretation of Architect's actions on submittals.
 - g. Incomplete RFIs or inaccurately prepared RFIs.

2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 012600 "Contract Modification Procedures."

1.8 PROJECT MEETINGS

- A. General Contractor: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.
 1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
 2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
 3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner, and Architect, within three days of the meeting.
- B. Preconstruction Conference: Architect will schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect.
 1. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 2. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Phasing.
 - c. Critical work sequencing and long-lead items.
 - d. Designation of key personnel and their duties.
 - e. Lines of communications.
 - f. Procedures for processing field decisions and Change Orders.
 - g. Procedures for RFIs.
 - h. Procedures for testing and inspecting.
 - i. Procedures for processing Applications for Payment.
 - j. Distribution of the Contract Documents.
 - k. Submittal procedures.
 - l. Preparation of record documents.
 - m. Use of the premises and existing building.
 - n. Work restrictions.
 - o. Working hours.
 - p. Owner's occupancy requirements.
 - q. Responsibility for temporary facilities and controls.
 - r. Procedures for moisture and mold control.
 - s. Procedures for disruptions and shutdowns.
 - t. Construction waste management and recycling.
 - u. Parking availability.

- v. Office, work, and storage areas.
- w. Equipment deliveries and priorities.
- x. First aid.
- y. Security.
- z. Progress cleaning.

- 3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.

C. Progress Meetings: General Contractor to conduct progress meetings at weekly intervals.

- 1. Coordinate dates of meetings with preparation of payment requests.
- 2. Attendees: In addition to representatives of Owner, and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
- 3. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.
 - 1) Review schedule for next period.
 - b. Review present and future needs of each entity present, including the following:
 - 1) Interface requirements.
 - 2) Sequence of operations.
 - 3) Status of submittals.
 - 4) Deliveries.
 - 5) Off-site fabrication.
 - 6) Access.
 - 7) Site utilization.
 - 8) Temporary facilities and controls.
 - 9) Progress cleaning.
 - 10) Quality and work standards.
 - 11) Status of correction of deficient items.
 - 12) Field observations.
 - 13) Status of RFIs.
 - 14) Status of proposal requests.
 - 15) Pending changes.
 - 16) Status of Change Orders.
 - 17) Pending claims and disputes.
 - 18) Documentation of information for payment requests.

4. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.
 - a. Schedule Updating: Revise Contractor's construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013100

DIVISION 01 – GENERAL REQUIREMENTS

SECTION 013300
SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.
- B. Related Requirements:
 - 1. Section 012900 "Payment Procedures" for submitting Applications for Payment and the schedule of values.
 - 2. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
- B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."

1.4 ACTION SUBMITTALS

- A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1.5 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect reserve the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- B. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 - 1. Initial Review: Allow 5 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 - 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 - 3. Resubmittal Review: Allow 15 days for review of each resubmittal.
- C. Paper Submittals: Place a permanent label or title block on each submittal item for identification.
 - 1. Indicate name of firm or entity that prepared each submittal on label or title block.
 - 2. Provide a space approximately 6 by 8 inches (150 by 200 mm) on label or beside title block to record Contractor's review and approval markings and action taken by Architect.
 - 3. Include the following information for processing and recording action taken:
 - a. Project name.
 - b. Date.
 - c. Name of Architect.
 - d. Name of Contractor.
 - e. Name of subcontractor.
 - f. Name of supplier.
 - g. Name of manufacturer.
 - h. Submittal number or other unique identifier, including revision identifier.
 - 1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).
 - i. Number and title of appropriate Specification Section.
 - j. Drawing number and detail references, as appropriate.
 - k. Location(s) where product is to be installed, as appropriate.
 - l. Other necessary identification.

4. Additional Paper Copies: Unless additional copies are required for final submittal, and unless Architect observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.
 - a. Submit one copy of submittal to concurrent reviewer in addition to specified number of copies to Architect.
 5. Transmittal for Paper Submittals: Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Architect will return without review submittals received from sources other than Contractor.
 - a. Transmittal Form for Paper Submittals: Provide locations on form for the following information:
 - 1) Project name.
 - 2) Date.
 - 3) Destination (To:).
 - 4) Source (From:).
 - 5) Name and address of Architect.
 - 6) Name of Contractor.
 - 7) Name of firm or entity that prepared submittal.
 - 8) Names of subcontractor, manufacturer, and supplier.
 - 9) Category and type of submittal.
 - 10) Submittal purpose and description.
 - 11) Specification Section number and title.
 - 12) Specification paragraph number or drawing designation and generic name for each of multiple items.
 - 13) Drawing number and detail references, as appropriate.
 - 14) Indication of full or partial submittal.
 - 15) Transmittal number, numbered consecutively.
 - 16) Submittal and transmittal distribution record.
 - 17) Remarks.
 - 18) Signature of transmitter.
- D. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:
1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

A. General Submittal Procedure Requirements:

1. Submit electronic submittals via email as PDF electronic files.
 - a. Architect will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.

2. Action Submittals: Submit three paper copies of each submittal unless otherwise indicated. Architect will return two copies.
 3. Informational Submittals: Submit two paper copies of each submittal unless otherwise indicated. Architect will not return copies.
 4. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.
 - a. Provide a digital signature with digital certificate on electronically submitted certificates and certifications where indicated.
 - b. Provide a notarized statement on original paper copy certificates and certifications where indicated.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
 2. Mark each copy of each submittal to show which products and options are applicable.
 3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - e. Testing by recognized testing agency.
 - f. Application of testing agency labels and seals.
 - g. Notation of coordination requirements.
 - h. Availability and delivery time information.
 4. Submit Product Data before or concurrent with Samples.
 5. Submit Product Data in the following format:
 - a. PDF electronic file.
 - b. Three paper copies of Product Data unless otherwise indicated. Architect will return two copies.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data, unless submittal based on Architect's digital data drawing files is otherwise permitted.
1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.

2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches (215 by 280 mm), but no larger than 30 by 42 inches (750 by 1067 mm).
 3. Submit Shop Drawings in the following format:
 - a. PDF electronic file.
 - b. Two opaque (bond) copies of each submittal. Architect will return one copy.
- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 2. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of applicable Specification Section.
 - e. Specification paragraph number and generic name of each item.
 3. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
 4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
 - b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
 5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit one full set of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
 6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

- a. Number of Samples: Submit three sets of Samples. Architect will retain two Sample sets; remainder will be returned. Mark up and retain one returned Sample set as a project record sample.
 - 1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
 - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.
- E. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:
 - 1. Submit product schedule in the following format:
 - a. PDF electronic file.
 - b. Three paper copies of product schedule or list unless otherwise indicated. Architect will return two copies.
- F. Coordination Drawing Submittals: Comply with requirements specified in Section 013100 "Project Management and Coordination."
- G. Application for Payment and Schedule of Values: Comply with requirements specified in Section 012900 "Payment Procedures."
- H. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Section 014000 "Quality Requirements."
- I. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 017700 "Closeout Procedures."
- J. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- K. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
- L. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
- M. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- N. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
- O. Schedule of Test and Inspections: Comply with requirements specified in Section 014000 "Quality Requirements".
- P. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Project Closeout and Maintenance Material Submittals: See requirements in Section 017700 "Closeout Procedures."
- C. Contractor's Review Stamp: review each submittal with a uniform, review stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

- A. General: Architect will not review submittals that do not bear Contractor's review stamp and will return them without action.
- B. Action Submittals: Architect's review is performed to determine general conformance with the design concept set forth in the Contract Documents. Review does not relieve Contractor of sole responsibility for means, methods, sequencing, scheduling of work, verification of quantities and dimensions or the performance of the work in a safe manner. No comments on the shop drawings will relieve the Contractor from performing the work in a manner consistent with the Contract Documents. Architect's review will indicate action mark as follows:
 - 1. Reviewed.
 - 2. Note Comments.
 - 3. Rejected.
 - 4. Not reviewed/Outside scope of Services.
 - 5. Resubmit After Required General Contractor Review.
 - 6. Revise.
 - 7. Resubmit.
- C. Subcontractors are not to use shop drawings and submittals to ask questions or request information. All questions must be asked through the RFI.
- D. Architect is not responsible for correcting errors in the shop drawings or submittals.
- E. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- F. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- G. Submittals not required by the Contract Documents may be returned by the Architect without action.

END OF SECTION 013300

DIVISION 01 – GENERAL REQUIREMENTS

SECTION 017419

CONSTRUCTION WASTE MANAGEMENT & DISPOSAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Disposing of nonhazardous construction waste.

1.3 DEFINITIONS

- A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.
- C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

- A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
 - 1. Comply with operation, termination, and removal requirements in Section 015000 "Temporary Facilities and Controls."
 - 2. Provide plywood under the wheels of the dumpsters.

- B. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

3.2 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
 - 1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn waste materials.
- C. Disposal: Remove waste materials from Owner's property and legally dispose of them.

END OF SECTION 017419

DIVISION 01 – GENERAL REQUIREMENTS

SECTION 017300
EXECUTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Construction layout.
 - 2. Field engineering and surveying.
 - 3. Installation of the Work.
 - 4. Cutting and patching.
 - 5. Coordination of Owner-installed products.
 - 6. Progress cleaning and final cleaning.
 - 7. Starting and adjusting.
 - 8. Protection of installed construction.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for limits on use of Project site.
 - 2. Section 017700 "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning.

1.3 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.
- B. Patching: Fitting and repair work required to restore construction to original conditions after installation of other work.

1.4 QUALITY ASSURANCE

- A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.

1. Structural Elements: When cutting and patching structural elements, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection
 - a. Refer to Unit Specifications.
2. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
 1. Examine walls for suitable conditions where products and systems are to be installed.
 2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- B. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
- B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Architect according to requirements in Section 013100 "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.

3.4 INSTALLATION

- A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 - 1. Make vertical work plumb and make horizontal work level.
 - 2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
- B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
- C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
- D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.
- E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.
- F. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.
- G. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.

- H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
 - 1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
 - 2. Allow for building movement, including thermal expansion and contraction.
 - 3. Coordinate installation of anchorages.
- I. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
- J. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.5 CUTTING AND PATCHING

- A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Temporary Support: Provide temporary support of work to be cut.
- C. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- D. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching according to requirements in Section 011000 "Summary."
- E. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Proceed with patching after construction operations requiring cutting are complete.

- F. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
 3. Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
 4. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.
- G. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.6 PROGRESS AND FINAL CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
 3. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.
- B. Site: Maintain Project site free of waste materials and debris.
- C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
1. Remove liquid spills promptly.
 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

- D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
- E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.
- F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
- G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 017419 "Construction Waste Management and Disposal."
- H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
- I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.
- J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.
- K. Provide final cleaning of all disturbed areas. Clean all glass and frames.

3.7 STARTING AND ADJUSTING

- A. Confirm proper operation of components. Remove malfunctioning units, replace with new units and retest.
- B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.
- C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

3.8 PROTECTION OF INSTALLED CONSTRUCTION

- A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

END OF SECTION 017300

DIVISION 01 – GENERAL REQUIREMENTS

SECTION 017700
CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.
 - 5. Repair of the Work.
- B. Related Requirements:
 - 1. Section 017300 "Execution" for progress cleaning of Project site.
 - 2. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.3 ACTION SUBMITTALS

- A. Product Data: For cleaning agents.
- B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.4 CLOSEOUT SUBMITTALS

- A. Certificates of Release: From authorities having jurisdiction.
- B. Certificate of Insurance: For continuing coverage.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.6 SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.
- B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
 - 2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, and similar final record information.
 - 3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 - 4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number where applicable.
 - 5. Submit test/adjust/balance records.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
 - 1. Advise Owner of pending insurance changeover requirements.
 - 2. Perform preventive maintenance on equipment used prior to Substantial Completion.
 - 3. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
 - 4. Participate with Owner in conducting inspection and walkthrough.
 - 5. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 - 6. Complete final cleaning requirements, including touchup painting.
 - 7. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.
 - 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

2. Results of completed inspection will form the basis of requirements for final completion.

1.7 FINAL COMPLETION PROCEDURES

- A. Preliminary procedures: Before requesting final inspection for determining final completion, complete the following:
 1. Submit a final Application for Payment according to Section 012900 "Payment Procedures."
 2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
 3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
 1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.8 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
 1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
 3. Submit list of incomplete items in the following format:
 - a. MS Excel electronic file. Architect, will return annotated file.
 - b. Three paper copies. Architect will return two copies.

1.9 SUBMITTAL OF PROJECT WARRANTIES

- A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
- B. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
 - 1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch (215-by-280-mm) paper.
 - 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
 - 3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
 - 4. Warranty Electronic File: Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide bookmarked table of contents at beginning of document.

1.10 ELECTRONIC CLOSEOUT DOCUMENTATION

- A. General: Provide a complete project Closeout Documentation Package in electronic format. This package shall include:
 - 1. Project Record Documents.
 - 2. Approved submittals.
 - 3. Operation and Maintenance Manuals.
 - 4. Warranties.
 - 5. Project Contact Directory.
- B. The Electronic Closeout Document shall be prepared by BHFX, LLC – 815-397-8800 – Rockford@bhfx.net.
- C. In order to the Electronic Closeout Documentation process, comply with the following:
 - 1. Contact BHFX a minimum 3 months prior to the date of Substantial Completion to schedule a pre-closeout meeting. Review the following:
 - a. Format of documents: PDF electronic format for all documents and AutoCAD drawing files.
 - b. Folder structure for storage and transfer of files.
 - c. Schedule for collection and turn-over of closeout documentation
 - d. Record Document Format Procedures: Provide clean and accurate paper copies of marked-up Record Documents (drawings and specifications) for scanning.

- e. Provide contact information for the individual responsible for the collection and transfer of the Electronic Closeout Document package contents.
 - f. Review the complete listing of Closeout Documentation package contents.
- 2. Provide all documentation to BHFX, LLC for processing no later than 30 days after the date of Substantial Completion.
 - 3. Schedule a training conference with the Owner's Representative, Architect and BHFX to present the completed Electronic Closeout Documentation package.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
 - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
 - b. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - c. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - d. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - e. Remove debris and surface dust from limited access spaces.
 - f. Sweep concrete floors broom clean in unoccupied spaces.

- g. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
 - h. Clean transparent materials, including and in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish glass, taking care not to scratch surfaces.
 - i. Remove labels that are not permanent.
 - j. Leave Project clean and ready for occupancy.
- C. Construction Waste Disposal: Comply with waste disposal requirements in Section 017419 "Construction Waste Management and Disposal."

3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
 - 1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
 - 2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
 - 3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.

END OF SECTION 017700

DIVISION 01 – GENERAL REQUIREMENTS
SECTION 017839
PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including the following:
 - 1. Record Drawings.
 - 2. Record Specifications.
 - 3. Record Product Data.
- B. Related Requirements:
 - 1. Section 017300 "Execution" for final property survey.
 - 2. Section 017700 "Closeout Procedures" for general closeout procedures.

1.3 CLOSEOUT SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit one set of marked-up record prints.
 - 2. Number of Copies: Submit copies of record Drawings as follows:
 - a. Initial Submittal:
 - 1) Submit one paper-copy set(s) of marked-up record prints.
 - 2) Submit PDF electronic files of scanned record prints and one of file prints.
 - 3) Submit record digital data files and one set of plots.
 - 4) Architect will indicate whether general scope of changes, additional information recorded, and quality of drafting are acceptable.
 - b. Final Submittal:
 - 1) Submit three paper-copy sets of marked-up record prints.
 - 2) Submit PDF electronic files of scanned record prints and three sets of prints.
 - 3) Print each drawing, whether or not changes and additional information were recorded.
- B. Record Specifications: Submit one paper copy and PDF electronic files of Project's Specifications, including addenda and contract modifications.

- C. Record Product Data: Submit one paper copy and PDF electronic files and directories of each submittal.
 - 1. Where record Product Data are required as part of operation and maintenance manuals, submit duplicate marked-up Product Data as a component of manual.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawing, incorporating new and revised drawings as modifications are issued.
 - 1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.
 - a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Accurately record information in an acceptable drawing technique.
 - c. Record data as soon as possible after obtaining it.
 - 2. Mark the Contract Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
 - 3. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
 - 4. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
 - 1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 - 2. Format: Annotated PDF electronic file with comment function enabled.
 - 3. Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Architect.
 - e. Name of Contractor.

2.2 RECORD SPECIFICATIONS

- A. Preparation: Mark Specifications to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
 3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
 4. Note related Change Orders, record Product Data, and record Drawings where applicable.
- B. Format: Submit record Specifications as scanned PDF electronic file(s) of marked-up paper copy of Specifications.

2.3 RECORD PRODUCT DATA

- A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.
1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
 3. Note related Change Orders, record Specifications, and record Drawings where applicable.
- B. Format: Submit record Product Data as annotated PDF electronic file and paper copy.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.
- B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's reference during normal working hours.

END OF SECTION 017839

SECTION 022200
BUILDING DEMOLITION

1. GENERAL

1.01. SUMMARY

- A. Work Included in This Section Features:
 - 1. Demolition of designated structures.
 - 2. Removal of items in danger of collapse.
 - 3. Demolition of site improvements as noted on drawings.
 - 4. Disconnecting and capping utilities to remain in place.
 - 5. Removal of designated utility lines.
 - 6. Demolition of below-grade foundations, footings and floor slabs.
 - 7. Shoring, bracing, etc. of structures to remain.
 - 8. Removal of demolished materials from site
 - 9. Salvage of existing removed materials.
- B. Pollution control during building demolition, including noise control.
 - 1. Pest extermination.
- C. Related Work Specified in Other Sections:
 - 1. Fill materials and Compaction..... Section 023100.
 - 2. Site clearing outside the periphery of existing structures Section 023100.
 - 3. Removal of vehicular pavements..... Section 023100.
- D. Asbestos and hazardous materials demolition and removal work is not a part of the contract and will be performed by a Licensed State of Illinois Asbestos Abatement Contractor as listed under Section 001500 – *Special Requirements*.

1.02. REGULATORY REQUIREMENTS

- A. Comply with all current requirements, rules and regulations of the City of Rockford, IL, Winnebago County, other regulatory governments having jurisdiction and local utility companies including, but not limited to, the following.
 - 1. State and Federal guidelines.
 - 2. Applicable EPA Regulations.
 - 3. Applicable NESHAPS Regulations.

- 4. Applicable IDPH Regulations.
- 5. Applicable OSHA Regulations.
- B. All waste shall be land filled at an EPA approved landfill in accordance with EPA and IDOT Regulations.

1.03. QUALITY ASSURANCE

- A. Exterminator's Qualifications: Company shall be licensed by the IL Dept. of Health and shall have at least 10 years of satisfactory experience in the kind of work described. Submit names and addresses of at least 5 business concerns for whom similar services have been performed by the company within the past year.
- B. Comply with governing codes and regulations.
- C. Use experienced workers.

1.04. SUBMITTALS

- A. Make submittals per requirements of Section 013300 – Submittals Procedures.
- B. Submit schedule indicating proposed sequence of operations. Include coordination for shutoff, capping and continuation of utility services as required, together with details for dust and noise control.
- C. Submit plan for pest extermination.
- D. Submit record documents.
- E. Submit copies of all permits and governmental authorizations required.

1.05. PROTECTION OF PUBLIC AND PROPERTY

- A. Provide all measures required by federal, municipal and state ordinances, laws, and regulations for the protection of surrounding property, sidewalks designated to remain, pavement designated to remain, curbs designated to remain, the public, and workmen during demolition operations.
- B. The measures taken, including any sidewalk sheds required, barricades, fences, warning lights and signs, rubbish chutes, etc., shall also comply with ANSI A 10.6, "Code for Building Construction."
- C. Demolition work shall not interfere with use of adjacent properties except as specifically permitted.
- D. Take every precaution to guard against movement or settlement of adjacent buildings, structures, sidewalks and pavements. Provide all necessary bracing and shoring. Protect ground water levels in adjacent properties from changes due to demolition procedures. Contractor shall be solely and entirely responsible for complete safety of adjacent construction.
- E. Protect street pavements, trees and planting, on or off the premises, and repair, replace or otherwise make good all damage.

- F. Ensure safe passage of persons around area of demolition. Conduct operations to prevent injury to adjacent buildings, structures, other facilities, and persons.

1.06. SPECIAL HAZARDS

- A. Removal of asbestos products shall only be done in accordance with State and Federal guidelines, applicable EPA, NESHAPS, IDPH AND OSHA Regulations and by State approved asbestos removal contractor hired by the Owner.
- B. Disposal of PCB containing ballasts and mercury containing lamps shall be processed in accordance with Toxic Substances Control Act (TSCA) 1976.
- C. Confirm the initial reports of discovery in writing to Owner and Architect within 24 hours.
- D. Any chemical wastes discovered during excavation work, either in containers or visible in the soils, shall be immediately reported to the Owner and Architect, and procedures as specified above for asbestos shall be instituted.

1.07. EXISTING CONDITIONS

- A. Examine existing buildings and site and surrounding areas thoroughly and fully as to all difficulties that may be encountered in complete execution of the work, including conditions, accessibility and storage space affecting this Section of the work. Investigate means of approach to site.
- B. Inspect, test and probe to determine existing conditioning to determine what procedures will be required to protect adjacent structures to remain.
- C. Prior to demolition, examine the piping cavity wall to determine if asbestos products are contained therein: If so, notify the asbestos abatement Contractor so that such material is properly disposed of prior to demolition work activity.
- D. Prior to demolition, this Contractor shall remove any piping, boilers or similar features from basement.

1.08. UTILITY SERVICES

- A. Inspect public utility records for locations of underground utilities.
- B. Maintain and keep in service existing utilities unless indicated to be removed. Protect against damage.
- C. Before demolishing electrical wiring, gas or water pipes, conduit and similar items, notify City Departments having jurisdiction, and Utility Companies to verify that these items are out of service and can be removed without danger; and obtain written authorization to perform demolition.
- D. Notify electrical utility company, prior to the start of demolition, of their need to remove the existing exterior transformer (s). Coordinate removal schedule with the electrical utility company to avoid any delay in the building demolition schedule.

- E. Disconnect and seal indicated utilities before starting demolition operations, in accordance with local codes and regulations of authorities having jurisdiction.
- F. Report to Architect any underground utilities encountered which were not indicated on city records.

1.09. JOB CONDITIONS

- A. Notice, Permits, Laws, Etc.:
 - 1. Contractor shall take out all permits required. Owner will pay for all permits.
 - 2. Notify the Owner, Utility Companies, and all other parties who may be interested or involved, as required by law before starting demolition work.
- B. Perform or refrain from performing all acts necessary to protect the Owner from any action or liability whatsoever resulting from this operation.
- C. Traffic:
 - 1. Conduct demolition operations and removal of debris to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities.
 - 2. Do not close or obstruct streets, walks or other occupied or used facilities without permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.
- D. Recycling Existing Materials: The Owner requests that Contractors recycle materials on this project whenever possible. See Section 023100 Earthwork & Seeding, 2.01 Soil Materials.

2. PRODUCTS

2.01. MATERIALS

Materials and equipment used for exterminating pests shall comply in all respects with rules and regulations of local Department of Health, as well as laws, ordinances and regulations of State and Federal agencies.

2.02. PEST CONTROL

- A. Exterminate rats, mice, cockroaches and water beetles from existing structures and surrounding ground areas throughout the course of demolition work.
- B. Prior to beginning of any demolition, establish a means of containing pests within the site area to prevent them from moving to adjacent properties.
- C. Post in prominent locations adequate warning signs for protection of public and as required by the regulating agencies.
- D. Inspect and treat affected areas on a set day once each week during regular work day hours (Monday through Friday). Provide emergency service during regular work day hours, within 24 hours, if requested by Owner or Architect.

- E. Include all structures within the boundary lines of the site, as well as shanties, temporary toilets, and field office trailers.

2.03. UTILITIES

- A. Remove mechanical and electrical items using workmen qualified in each trade.
- B. Comed shall pull the meter and remove overhead line back to pole.
- C. Comed to pull the meter, remove service cables (primary & secondary) back to main distribution line and remove transformer. Underground cables shall be abandoned in place if they were direct bury. Underground cables shall be removed if they are in conduit.
- D. Nicor to pull gas meter and cap gas line at the main.
- E. City of Rockford to pull water meter and contractor to remove and cap existing water line at main and patch street as required.
- F. Contractor to disconnect, remove, and cap existing sanitary and storm lines at mains and patch street as required.
- G. Plug abandoned sewer lines solid with concrete. Trace lines, if possible, to manhole and plug at point of discharge. If this is not possible, excavate to curb line and plug solid a minimum of 10ft toward point of discharge, subject to City approval.
- H. Mark location of disconnected utilities. Identify utilities with metal tags and indicate capping locations on Project Record Documents.
- I. See 023100 Earthwork and Seeding page 2, 1.04 Job Conditions C. Existing Utilities.

2.04. SALVAGING AND SAVING

- A. Except as otherwise indicated or specified, all demolished materials and equipment shall become the Contractor's property and are to be removed from the site. Any items of value designated for removal may be sold for cash, to the contractor's benefit. Sale of items at project site is prohibited.
- B. Carefully remove and clean items indicated to be salvaged. Store and protect as required.
- C. Items to be Protected During Demolition:
 - 1. Designated site improvements, trees, and plantings.
- D. Items to be salvaged for Owner's future re-use are listed below. Verify with Owner. Deliver salvaged items, crated or on pallets, to 1907 Kishwaukee Street, RPS#205 Operations Building.
 - 1. No items.
- E. Items not to be retained for the Owner's benefit are to be removed from project site; storage on site will not be allowed.

2.05. BELOW-GRADE DEMOLITION

- A. Any footings, foundations or foundation walls under slab on grade construction shall be demolished and removed from site.
- B. Any footings, foundations or foundation walls serving basement floors including basement floors greater than 3' in depth shall be demolished and may remain such that no individual piece of material exceeds one square foot in size.

2.06. DEMOLITION OF STRUCTURES

- A. Remove all fencing around perimeter of site as noted on Site Plan. Existing chain link fencing may remain during demolition and removed at completion of all demolition work.
- B. Demolish indicated structures and appurtenances in an orderly and careful manner.
- C. Use no explosives.
- D. Methods of demolishing partitions, roofs, walls, etc. shall be approved by authorities having jurisdiction.
- E. Cease operations and notify Architect immediately if cracks and other signs indicate that an adjacent structure appears to be endangered. Do not resume operations until corrective measures have been taken.
- F. Materials shall not be dropped or thrown from upper levels, but shall be lowered by means of hoists or rubbish chutes.
- G. Foundation Walls, Footings and Slabs: See 2.05.A and 2.05.B.
- H. Remove concrete slabs on grade.
- I. Remove all asphalt and concrete paving and walks as noted on Site Plan.
- J. Steel Framing: Remove members individually.
- K. Concrete Framing and Masonry: Remove in small sections except as approved otherwise by Architect.
- L. Windows: Remove window glass from premises with window sash and frames such that no glass remains on site.
- M. Dewatering: Maintain below-grade areas free of gravel water, rains and surface drainage. Accumulations of water will not be allowed at any time.

2.07. REMOVAL AND DISPOSAL

- A. Remove from site and legally dispose of all debris, rubbish and other unwanted materials resulting from demolition operations. Remove demolished materials from site as work progresses.

- B. Dispose of demolished materials only in manner and place approved by authorities governing the disposal sites. Computers to be removed by Contractor may, at Contractor's option and expense, dispose as follows:
 - 1. In accordance with pertinent laws and regulations at sanctioned landfills or;
 - 2. Recycle in accordance with Illinois Recycling Association's means for recycling electronic items (www.illinoisrcycles.org).
- C. Promptly remove and dispose of contaminated, vermin infested materials.
- D. Do not burn or bury materials on site.
- E. Trucks used in hauling debris shall be equipped with tarpaulins to cover the loads and shall not be loaded so excessively as to spill debris on streets.
- F. Routes of equipment handling debris shall be approved by City and County and State authorities as required and such routes shall be strictly adhered to.
- G. Keep work sprinkled to minimize dust.

2.08. CLEAN UP

- A. Leave site in clean condition, free of all apparatus, waste and temporary structures.

END 022200

DIVISION 2 – SITE CONSTRUCTION
SECTION 023100
EARTHWORK and SEEDING

1. GENERAL

1.01. SUMMARY

- A. Work Included in this Section Features:
 - 1. Protection of lawn, trees and shrubs designated to remain.
 - 2. Protection of undeveloped land from excessive degradation.
 - 3. Rough grading.
 - 4. Provision of granular materials from offsite.
 - 5. Filling, backfilling and compaction of fills including voids left by below-grade demolition.
 - 6. Removal of excess excavated materials.
 - 7. Topsoil and Seeding
- B. Related Work Specified in Other Sections:
 - 1. Building demolition, except as specified herein..... Section 022200.

1.02. QUALITY ASSURANCE

- A. Lines and Levels: The Contractor shall be solely responsible for execution of work to the lines and levels shown on the Drawings.
- B. Laws and Regulations:
 - 1. Comply with all local, county and state laws, rules, codes, and regulations that may affect this site work.
 - 2. Comply with OSHA 29CFR, Part 1926, Subpart P, “Excavations and Trenches” and its appendices.
- C. Soil Testing and Inspection Service:
 - 1. The Owner will engage the services of an independent soils testing service, approved by Architect, to test soil materials proposed for use in the Work (area of the demolition building footprint).
 - 2. Costs for the first testing of an area shall be paid for by the Owner. All testing required for checking and correcting faulty work or work to be re-done shall be paid for by the Contractor at his own expense.
 - 3. Services shall include:
 - a. Observation of proof rolling.

- b. Tests for maximum dry density of compacted fill materials.
- c. In-place field dry density tests for every 2,500 square feet of area of each layer of compacted subgrade fill of the demolished building foot print as directed by the Architect.
- d. If compaction is found to be unsatisfactory, extra in-place field dry density tests to determine the extent of recompaction work required.

1.03. SUBMITTALS

- A. Process all submittals per requirements in Section 013300 – *Submittal Procedures*.
- B. Samples: Submit to Soil Testing Service Company, 50-pound representative samples of each proposed fill material at least 2 days prior to start of any filling operation.
- C. Test Reports: Soil Testing Service Company shall submit 2 copies of all test reports to Architect.

1.04. JOB CONDITIONS

- A. Site Information and Working Conditions: Excavation contractor shall visit site prior to submitting his bid in order to determine existing conditions under which he will be obliged to operate and the extent of site preparation work required.
- B. Filling, backfilling and compaction of voids left by below-grade demolition shall use materials described in Section 023100, 2.01. A and B.
- C. Existing Utilities:
 - 1. Locate existing underground utilities in areas of the work before starting earthwork operations. Contact Joint Utility Locating Information for Excavators (J.U.L.I.E.) at 800-892-0123.
 - 2. Notify utility companies to remove and relocate their lines that are indicated to remain in service and are in the way of the Work. Other existing utility lines indicated to remain, which pass thru areas of the Work, shall be maintained, rerouted or extended as required.
 - 3. Protect those utilities to remain in place during earthwork operations.
 - 4. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult the Architect immediately as to how to proceed.
 - 5. Do not interrupt existing utilities serving facilities occupied or used by Owner or others, except when permitted in writing by Architect and then only after acceptable temporary utility services have been arranged.
 - 6. Demolish and completely remove from the site underground utilities indicated to be removed. Coordinate with local utility companies for shut-off and capping or sealing of services if lines are active. Capped lines shall be so identified at grade.
 - 7. See Section 022200 Building Demolition page 5, 2.03 Utilities A. through H.

1.05. PROTECTION OF PERSONS AND PROPERTY

- A. The Contractor and subcontractors involved in earthwork shall certify that they understand and will comply with all requirements of the Storm Water Permit and shall be responsible for the SWPPP inspections and maintaining the records.
- B. See SWPPP permit application in Appendix A and drawings C101 and C102
- C. A copy of the SWPPP permit and the certifications shall be kept on-site for inspection upon request.
- D. Open Excavations: Barricade and post with warning lights. Operate warning lights during hours from dusk to dawn each day and as otherwise required.
- E. Landscaping: Protect trees, shrubs, lawn areas and other features remaining as part of final landscaping.
- F. Archaeological and paleontological artifacts discovered shall remain the property of the Owner and shall be preserved intact. Notice shall be given to the Owner and Architect immediately upon discovery of any item that might qualify.

1.06. BRACING, SHEETING AND SHORING

- A. General: Provide bracing, sheeting and shoring for the sides of excavations as necessary to prevent movement or settlement of adjacent structures, utilities, roads, streets and sidewalks, etc. The cost of all bracing, sheeting and shoring required shall be deemed to have been included as part of the Contract Sum.
- B. Contractor's Responsibility: The Contractor shall be entirely responsible for the strength and adequacy of all such bracing, sheeting and shoring, and is liable for any damage or injury caused by or resulting from improperly supported soils and structures. He shall, if required, submit fully detailed Shop Drawings for review prior to placement; however, such review shall not diminish the Contractor's responsibilities in any way.
- C. Notifications to Adjacent Property Owners: The Contractor shall issue any notices to owners of adjoining property that may be required by any pertinent laws or ordinances. Furnish copies of such notices to Architect.
- D. Adjacent Structures, Utilities, etc.: If the safety of any adjacent structures, utilities, etc., should appear to be endangered, take all proper means to support such embankments, structures, utilities, etc., and notify Architect. Do not resume operation without Architect's permission. Also, provide and place bracing and shoring ordered by Architect when necessary to safeguard adjacent buildings, etc. If the Contractor fails to comply promptly when so ordered, the required bracing and shoring may be placed by order of Architect at Contractor's expense. Any such action shall not relieve the Contractor of responsibility for the bracing and shoring or liability for damage.

2. PRODUCTS

2.01. SOIL MATERIALS

- A. Fill Materials: Fill material shall be obtained from offsite borrow pits approved by Architect or from recycled materials on site.
- B. Recycling Existing Materials: The Owner requests that Contractors recycle materials on this project whenever possible including but not limited to:
 - 1. Concrete: Bidders may choose to grind concrete and utilize as fill, grinding to appropriate size.
 - 2. Brick & Concrete block: Bidders may choose to grind brick and concrete block and use as fill, grinding to appropriate size.
 - 3. Asphalt pavement: Bidders may choose to grind existing asphalt and utilize as fill, grinding to appropriate size.
 - 4. No pieces of concrete, brick, concrete block or asphalt pavement greater than 3 inches shall be placed within 1 foot of the sub-grade elevation.
 - 5. Fill last 12" to sub-grade of topsoil with inorganic fill, tested by testing laboratory and approved by Architect.
- C. Compaction

Each lift of the fill material shall be disked sufficiently to break down oversized clods, mix the different materials, secure a uniform moisture content, and ensure uniform density and compaction. Disking may be omitted if the fill material consists of sand or gravel.

The top 2 ft (600 mm) of all fills shall not contain more than 120 percent of the optimum moisture determined according to AASHTO T 99 (Method C). The Contractor will be permitted the use of an approved additive to effect a quicker drying time. The standard laboratory density shall be the maximum dry density determined according to AASHTO T 99 (Method C). A coarse particle correction according to AASHTO T 224 shall be used.

The dry density of the compacted fill will be determined by the Engineer at regular intervals according to AASHTO T 191, Illinois methods approved by the Engineer.

The fill shall be sprinkled with water when it is necessary to increase the moisture content of the soil to permit the embankment to be constructed to the densities indicated above.

Compacting equipment and compacting operations shall be coordinated with the rate of placing fill so that the required density is obtained.

Special care shall be exercised in compacting fill adjacent to structures and in sharp depressions. Where such areas are inaccessible to the compacting equipment being used, the material shall be placed in 8 in. (200 mm) horizontal lifts and uniformly compacted with suitable mechanical equipment. Fills placed adjacent to a structure shall not contain more than 110 percent of the optimum moisture determined according to AASHTO T 99 (Method C).

3. EXECUTION

3.01. FILLING AND COMPACTION

A. General:

1. Subgrade Approval: Subgrades shall be approved by soils testing service just prior to placement of fills.
 - a. Should subgrade become frozen, desiccated, saturated or disturbed, remove the affected material, or scarify, adjust the moisture condition and recompact the affected materials.
 - b. Notify soils testing service well ahead of when excavations are scheduled to reach subgrade elevations required.
2. Debris: Completely remove from excavations before backfilling.
3. Water-Free and Unfrozen Ground: No fill to be compacted shall be placed in free water, or on frozen ground.
4. Soil Hydration: Manipulate and wet the fill materials as required to obtain a uniform moisture content throughout.
 - a. Cohesive soils shall be placed at moisture contents of -1% to +3% per Standard Proctor Method (ASTM D 698). Granular fills shall be placed within 3% of the material's optimum moisture content.
 - b. Mix lean to fat clays with lower plasticity clays and/or hydrated lime or lime byproduct materials as necessary to achieve required compaction values.

B. Placing Fill to be Compacted:

1. Placement:
 - a. Place fill material in layers of 12" or less in loose thickness, starting in the deepest area and progressing approximately parallel to the finished grade.
 - b. Fill shall be placed to within 3" to the top of the future topsoil finish grade.
2. Testing Between Layers: Compaction of each layer shall be tested as specified. Obtain soil testing service's approval before next layer of fill is started.
3. After fill placement and compaction, grade surface to meet adjacent contours and to provide flow to surface drainage structures.

C. Compaction Procedures:

1. Timing: Compact the soils immediately after placement, while they retain their optimum moisture content; otherwise, manipulate and wet the soil as required to obtain the required moisture content uniformly throughout.
2. Weather Conditions: Suspend compaction operations when proper results cannot be obtained because of rain or soggy conditions, or when other conditions are, in the Architect's opinion, unsatisfactory.
3. Equipment: Compact with vibratory compaction and/or rolling equipment to the specified densities. Compaction by travel of grading equipment will not be

considered adequate. Use small vibratory or hand tamping compactors whenever fill is placed adjacent to walls or around footings and columns.

4. Each Layer of Fill to be compacted: Compact all across surface of each layer to the required density before allowing additional fill to be placed.
5. Recomaction: If compaction is found to be unsatisfactory, recompact until required density is achieved.

D. Compaction Densities:

Place fill materials in layers of 12" thick lifts at 90% of maximum density, per Standard Proctor Test (ASTM D 698).

3.02. ROUGH GRADING

- A. General: Uniformly grade new filled areas, including adjacent transition areas, and as otherwise indicated within the limits of demolished building footprint. Include any areas disturbed by construction operations.
 1. Leveling and Shaping: Smooth finished surfaces within specified tolerances, with uniform levels of slopes between points where elevations are shown, or between such points and existing grades.
 2. Degree of Finish Required: That ordinarily obtainable from either blade-grader or scraper operations.
- B. Finish the areas to receive topsoil to within 0.10' of required subgrade elevations (at least 3" below finish grade) after compaction, and make free from irregular surface changes.

3.03. TOPSOIL PLACEMENT, FINISH GRADING AND SEEDING

- A. Contractor to provide a minimum 3" of topsoil and seed property utilizing the following specification.
 1. Lawn Seed: Fresh clean and new crop seed mixture. Seed mix shall be 80% to 100% germination.
 2. Seed Type: IDOT Class IB Lawn Mixture. The planting times shall be between April 1st to June 15th and August 1st to November 1st.
 3. Growth: The District shall be responsible for achieving uniform growth so that the parcel exhibits 75% uniform growth or shall be reseeded.
 4. Fertilizer:
 - a. Granular, non-burning product composed of not less than 50% organic, slow acting, guaranteed analysis professional fertilizer.
 - b. Starter fertilizer containing 0% nitrogen, 26% phosphoric acid, and 26% potash by weight, or similar approved composition at a rate of 6 lbs. per 1,000 sq. ft.

- c. Second Application fertilizer to be applied at time of first cutting. 15% nitrogen, 40% phosphoric acid, and 5% potash at a rate of 6 lbs. per 1,000 sq. ft.
- 5. Ground Limestone:
 - a. Containing not less than 85% of total carbonates and ground to such fineness that 50% will pass through a 100-mesh sieve and 90% will pass through a 20-mesh sieve;
- 6. Mulch:
 - a. Straw: Clean oat or wheat straw well-seasoned before bailing, free from mature, seed-bearing stalks or roots of prohibited or noxious weeds. Should be free of rot and mildew;
 - b. Cellulose fiber mulch or equal.

PERFORMANCE

- 1. All seeding areas will be considered 75% complete for payment after all seed and erosion control structures, if applicable, have been installed.
- 2. Contractor is responsible for maintenance of turf areas by fertilizing, weeding, mowing, replanting, and other operations as necessary after germination for two mowings. Mow lawn as soon as top growth is tall enough to cut. Repeat mowing to maintain 2-3 inches height without cutting more than one-third of grass height. Remove no more than one-third of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. During this time, there shall be a minimum of one fertilizer application which, as stated above. Site will be assessed for uniform coverage during this period.
- 3. An acceptable lawn is a healthy, uniform stand, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. and bare spots not exceeding 6 by 6 inches. Reestablish lawns that do not comply with these requirements and continue maintenance (including mowing) until lawns are satisfactory. Work will be considered 100% complete for payment after completion of second mowing, successful lawn reestablishment as needed, and acceptance of turf by the DISTRICT AND RPD.

Notify Owner before second mowing to assess turf areas for compliance with performance requirements. Maintenance of turf areas will be the responsibility of the contractor up to the date of notification.

3.04. DISPOSAL OF EXCESS AND WASTE MATERIALS

- A. General: All excess material shall become the property of the Contractor and shall be legally disposed of off-site at no additional charge to Owner.

- B. Hauling: All off-site hauling shall be in tight beds to prevent spilling onto streets or highways. Use drip pans where necessary to prevent spilling. Off-site haul routes shall be approved by the appropriate county and city authorities.
- C. Disposal: Legally dispose of all materials removed from the site.

END 023100

SWPPP APPLICATION & PRE-DEMOLITION ASBESTOS IDENTIFICATION REPORT

1. GENERAL

1.01. SUMMARY

- A. The SWPPP permit application is included here for reference.
- B. The Pre-Demolition Asbestos Identification Report follows and is included for reference only.



February 14, 2018

Mr. Guy Carynski
Environmental Coordinator
Rockford School District
1907 Kishwaukee Street
Rockford, IL 61104

**RE: Pre-demolition Asbestos Inspection Report
New Milford Elementary School – 2128 New Milford School Rd., Rockford, IL 61103
Carnow Conibear Project No.: A139670107**

Dear Mr. Carynski,

Please find the attached summary and results of the pre-demolition asbestos inspection performed by Carnow, Conibear & Assoc., Ltd. (Carnow Conibear) at the above referenced property. The inspection and sampling was performed to determine the presence of asbestos-containing building materials prior to demolition. The surveys and sampling were conducted December 29, 2017; January 4, 2018; and January 26, 2018. Sampling was conducted by Carnow Conibear representatives Mr. Daniel Juneau and Mr. Evan Christian; both licensed by the Illinois Department of Public Health (IDPH) as Asbestos Building Inspectors.

CEI Labs (CEI) performed all related asbestos sample analysis. Analysis was completed by Polarized Light Microscopy (PLM) at 400x magnification. PLM is the EPA recommended laboratory method for the identification of asbestos in bulk building materials. CEI is accredited for asbestos bulk sample analysis by PLM through NIST's National Voluntary Laboratory Accreditation Program (NVLAP).

The results of the sampling are presented in the following tables.

**Table I
Asbestos Sample Results – Original Building
Rockford Public Schools – New Milford Elementary School
2128 New Milford School Road, Rockford, IL 61109**

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
EC010418-01 thru 03	9"x9" White Floor Tiles	Lower Levels	2% Chrysotile Asbestos	Removal/Abatement prior to Demolition

Table I
Asbestos Sample Results – Original Building
Rockford Public Schools – New Milford Elementary School
2128 New Milford School Road, Rockford, IL 61109

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
EC010418-04 thru 06	Black Mastic below 9"x9" White Floor Tiles	Lower Levels	Asbestos Not Detected	No Action Required prior to Demolition
EC010418-07 thru 09	9"x9" Green Floor Tiles	Upper Levels	10% Chrysotile Asbestos	Removal/Abatement prior to Demolition
EC010418-10 thru 12	Black Mastic below 9"x9" Green Floor Tiles	Upper Levels	2% Chrysotile Asbestos	Removal/Abatement prior to Demolition
EC010418-13 thru 15	12"x12" Gray Floor Tiles	SW Classroom	Asbestos Not Detected	No Action Required prior to Demolition
EC010418-16 thru 18	Black Mastic below 12"x12" Gray Floor Tiles	SW Classroom	Asbestos Not Detected	No Action Required prior to Demolition
EC010418-19 thru 21	12"x12" Green Floor Tiles	NE Classroom	10% Chrysotile Asbestos	Removal/Abatement prior to Demolition
EC010418-22 thru 24	Black Mastic below 12"x12" Green Floor Tiles	NE Classroom	Asbestos Not Detected	No Action Required prior to Demolition
EC010418-25 thru 27	2'x4' Suspended Ceiling Tiles – Dot Pattern	Lower Level – Art and Music Rooms	Asbestos Not Detected	No Action Required prior to Demolition
EC010418-28 thru 30	2'x2' Suspended Ceiling Tiles – Speckled Pattern	Upper Level Hallway	5% Amosite Asbestos	Removal/Abatement prior to Demolition
EC010418-31 thru 33	2'x4' Suspended Ceiling Tiles – Fissured and Dots Pattern	Upper Level Classrooms	5% Amosite, 3% Chrysotile Asbestos	Removal/Abatement prior to Demolition
EC010418-34 thru 36	Black Adhesive below Wood Floor	Gymnasium, Loft Office	Asbestos Not Detected	No Action Required prior to Demolition
EC010418-37 thru 39	Transite-type Wallboard	Gymnasium Airshafts	20% Chrysotile Asbestos	Removal/Abatement prior to Demolition
EC010418-40 thru 42	Aircell Pipe Insulation	Boiler Room, Basement	65% Chrysotile Asbestos	Removal/Abatement prior to Demolition

Table I
Asbestos Sample Results – Original Building
Rockford Public Schools – New Milford Elementary School
2128 New Milford School Road, Rockford, IL 61109

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
EC010418-43 thru 45	Boiler Insulation	Boiler Room	5% Amosite, 30% Chrysotile Asbestos	Removal/Abatement prior to Demolition
EC010418-46 thru 48	Boiler Breeching Insulation	Boiler Room	5% Amosite, 30% Chrysotile Asbestos	Removal/Abatement prior to Demolition
EC010418-49 thru 51	Interior Window Glazing Sealant	Steel Framed Windows	3% Chrysotile Asbestos	Removal/Abatement prior to Demolition
EC010418-52 thru 54	Exterior Window Caulk	Steel Framed Windows	Asbestos Not Detected	No Action Required prior to Demolition
EC010418-55 thru 61	Hard Coat Plaster	Walls/Ceilings	Asbestos Not Detected	No Action Required prior to Demolition
EC010418-62 thru 64	1'x1' Glued on Ceiling Tiles – White with Dots	Gymnasium	5% Amosite, 2% Chrysotile Asbestos	Removal/Abatement prior to Demolition
EC010418-65 thru 67	Adhesive for 1'x1' Glued on Ceiling Tiles – White with Dots	Gymnasium	Asbestos Not Detected	No Action Required prior to Demolition
EC010418-68 thru 72	Ceiling Plaster	Gymnasium	Asbestos Not Detected	No Action Required prior to Demolition
EC010418-73 thru 75	Pipe Joint Insulation on Fiberglass Runs	Boiler Room/Basement	2% Chrysotile Asbestos	Removal/Abatement prior to Demolition
EC010418-76 thru 78	Boiler Gaskets	Boiler Room	Asbestos Not Detected	No Action Required prior to Demolition
EC012618-04 thru 06	Roof Field	Roof	Asbestos Not Detected	No Action Required prior to Demolition
EC012618-07 thru 09	Roof Flashing	Roof	Asbestos Not Detected	No Action Required prior to Demolition
EC012618-10 thru 12	Parapet Sealant	Roof	10% Chrysotile Asbestos	Removal/Abatement prior to Demolition

Table II
Asbestos Sample Results – North Wing
Rockford Public Schools – New Milford Elementary School
2128 New Milford School Rd., Rockford, IL 61109

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DJ010418-01 thru 03	9"x9" Brown Floor Tiles	110, Lower Hallway, Cafeteria	5% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ010418-04 thru 06	Black Mastic below 9"x9" Brown Floor Tiles	110, Lower Hallway, Cafeteria	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-07 thru 09	12"x12" Brown Floor Tiles	Upper Hallway, Classrooms	5% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ010418-10 thru 12	Black Mastic below 12"x12" Brown Floor Tiles	Upper Hallway, Classrooms	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-13 thru 15	1'x1' Spline Ceiling Tiles – Fissured	Various Areas	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-16 thru 18	1'x1' Spline Ceiling Tiles – Dotted	Lower Level, Cafeteria	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-19 thru 21	2'x2' Suspended Ceiling Tiles – Fissured	Lower Hallway	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-22 thru 24	2'x2' Suspended Ceiling Tiles – Speckled	Upper Hallway	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-25 thru 29	Textured Ceiling Plaster	Various Areas	3% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ010418-30 thru 32	Hard Coat Ceiling Plaster	Restrooms, Kitchen	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-33 thru 35	Vinyl Baseboard	Throughout North Wing	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-36 thru 38	Baseboard Adhesive	Throughout North Wing	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-39 thru 41	Blue Linoleum Sheet Flooring	208	Asbestos Not Detected	No Action Required prior to Demolition

Table II
Asbestos Sample Results – North Wing
Rockford Public Schools – New Milford Elementary School
2128 New Milford School Rd., Rockford, IL 61109

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DJ010418-42 thru 44	Aircell Pipe Insulation	Above Ceiling Areas	65% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ010418-45 thru 47	Exterior Window Glazing Sealant	Aluminum Windows	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-48 thru 50	Exterior Window Caulk	Aluminum Windows	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-51	Linoleum Counter Tops	211	Asbestos Not Detected	No Action Required prior to Demolition
EC012618-01 thru 03	Exterior Cement Plaster Soffits	Throughout Buildings	Asbestos Not Detected	No Action Required prior to Demolition
EC012618-19 thru 21	Roof Field	Roof	Asbestos Not Detected	No Action Required prior to Demolition
DJ010418-22 thru 24	Roof Flashing	Roof	Asbestos Not Detected	No Action Required prior to Demolition

Table III
Asbestos Sample Results – East Wing
Rockford Public Schools – New Milford Elementary School
2128 New Milford School Rd., Rockford, IL 61109

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DJ122917-01 thru 03	9"x9" Floor Tiles	Classrooms and Hallways	5% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ122917-04 thru 06	Black Mastic below 9"x9" Floor Tiles	Classrooms and Hallways	5% Chrysotile Asbestos	Removal/Abatement prior to Demolition

Table III
Asbestos Sample Results – East Wing
Rockford Public Schools – New Milford Elementary School
2128 New Milford School Rd., Rockford, IL 61109

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DJ122917-07 thru 09	1'x1' Ceiling Tiles – Small Fissures	Hallways, Room Soffits	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-10 thru 12	Dark Brown Adhesive for 1'x1' Ceiling Tiles	Hallways, Room Soffits	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-13 thru 15	Drywall	Various Areas	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-16 thru 18	Tectum-type Ceiling Deck Panels	Throughout East Wing	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-19 thru 23	Hardcoat Plaster	Classroom Soffits, Various Ceilings	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-24 thru 26	12"x12" Gray Mottled Floor Tiles	Nurse's Office/Bathroom	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-27 thru 29	Black Mastic below 12"x12" Gray Mottled Floor Tiles	Nurse's Office/Bathroom	3% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ122917-30 thru 32	12"x12" Beige Mottled Floor Tiles	Principal's Office, Main Office Storage	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-33 thru 35	Black Mastic below 12"x12" Beige Mottled Floor Tiles	Principal's Office, Main Office Storage	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-36 thru 38	2'x4' Suspended Ceiling Tiles – Fissured	Main Office Areas	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-39 thru 41	Drywall	Various Areas	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-42 thru 44	Drywall Joint Compound	Various Areas	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-45 thru 47	Black Carpet Adhesive	Main Office, Principal Office	2% Chrysotile Asbestos	Removal/Abatement prior to Demolition

Table III
Asbestos Sample Results – East Wing
Rockford Public Schools – New Milford Elementary School
2128 New Milford School Rd., Rockford, IL 61109

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DJ122917-48 thru 50	12"x12" White w/ Brown Streaks Floor Tiles	Hallways Surrounding Gymnasium	3% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ122917-51 thru 53	Black Mastic below 12"x12" White w/ Brown Streaks Floor Tiles	Hallways Surrounding Gymnasium	5% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ122917-54 thru 56	Pipe Joint Insulation on Fiberglass Runs	Mechanical/Plumbing Insulation	35% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ122917-57 thru 59	Boiler Breeching Insulation	Boiler Room	2% Amosite, 20% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ122917-60 thru 62	Black Adhesive on Fiberglass AHU Insulation	Mechanical Fan Room	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-63 thru 65	Canvas Covering over AHU Insulation	Mechanical Fan Room	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-66 thru 68	Vibration Collars	Mechanical Fan Room	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-69	White Sink Undercoating	Faculty Lounge	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-70 thru 72	Exterior Window Glazing Sealant	Throughout	2% Chrysotile Asbestos	Removal/Abatement prior to Demolition
DJ122917-73 thru 75	Construction Adhesive	Wall Components	Asbestos Not Detected	No Action Required prior to Demolition
DJ122917-76 thru 78	Exterior Window Caulk	Windows Throughout	Asbestos Not Detected	No Action Required prior to Demolition
EC012618-13 thru 15	Roof Field	Roof	Asbestos Not Detected	No Action Required prior to Demolition
EC012618-16 thru 18	Roof Flashing	Roof	Asbestos Not Detected	No Action Required prior to Demolition

Based on the results of the inspections and sampling Carnow Conibear recommends the following prior to demolition at New Milford Elementary School located at 2128 New Milford School Road, Rockford, Illinois 61109.

- **Asbestos Abatement** - Removal and disposal of all identified asbestos containing materials per applicable EPA and OSHA asbestos regulations. Abatement by Illinois Licensed Asbestos Abatement Contractor.

See Attachment A for laboratory reports and sample chain of custody documentation and Attachment B for Inspector License and Current Accreditation.

Please feel free to contact me directly at 312.762.2925 or echristian@ccaltld.com should you have any questions or require any additional information.

Sincerely,

CARNOW, CONIBEAR & ASSOC., LTD.



Evan Christian
Senior Project Manager
Licensed Asbestos Inspector

ATTACHMENT A



January 9, 2018

Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CLIENT PROJECT: Rockford- New Milford School Original Building; A139670107
CEI LAB CODE: A18-0227

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 5, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

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

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read "Tianbao Bai", written in a cursive style.

Tianbao Bai, Ph.D., CIH
Laboratory Director





ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: Rockford- New Milford School Original Building;
A139670107

CEI LAB CODE: A18-0227

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

REPORT DATE: 01/09/18

TOTAL SAMPLES ANALYZED: 78

SAMPLES >1% ASBESTOS: 41

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford- New Milford School Original
Building; A139670107

CEI LAB CODE: A18-0227

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
EC010418-01		A2585493	White	Floor Tile	Chrysotile 2%
EC010418-02		A2585494	White	Floor Tile	Chrysotile 2%
EC010418-03		A2585495	White	Floor Tile	Chrysotile 2%
EC010418-04		A2585496	Black	Mastic	None Detected
EC010418-05		A2585497	Black	Mastic	None Detected
EC010418-06		A2585498	Black	Mastic	None Detected
EC010418-07		A2585499	Green	Floor Tile	Chrysotile 10%
EC010418-08		A2585500	Green	Floor Tile	Chrysotile 10%
EC010418-09		A2585501	Green	Floor Tile	Chrysotile 10%
EC010418-10		A2585502	Black	Mastic	Chrysotile 2%
EC010418-11		A2585503	Black	Mastic	Chrysotile 2%
EC010418-12		A2585504	Black	Mastic	Chrysotile 2%
EC010418-13		A2585505	Gray	Floor Tile	None Detected
EC010418-14		A2585506	Gray	Floor Tile	None Detected
EC010418-15		A2585507	Gray	Floor Tile	None Detected
EC010418-16		A2585508	Black	Mastic	None Detected
EC010418-17		A2585509	Black	Mastic	None Detected
EC010418-18		A2585510	Black	Mastic	None Detected
EC010418-19		A2585511	Green	Floor Tile	Chrysotile 10%
EC010418-20		A2585512	Green	Floor Tile	Chrysotile 10%
EC010418-21		A2585513	Green	Floor Tile	Chrysotile 10%
EC010418-22		A2585514	Black	Mastic	None Detected
EC010418-23		A2585515	Black	Mastic	None Detected
EC010418-24		A2585516	Black	Mastic	None Detected
EC010418-25		A2585517	White	Ceiling Tile	None Detected
EC010418-26		A2585518	White	Ceiling Tile	None Detected
EC010418-27		A2585519	White	Ceiling Tile	None Detected
EC010418-28		A2585520	White	Ceiling Tile	Amosite 5%
EC010418-29		A2585521	White	Ceiling Tile	Amosite 5%
EC010418-30		A2585522	White	Ceiling Tile	Amosite 5%
EC010418-31		A2585523	White	Ceiling Tile	Amosite 5% Chrysotile 3%



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford- New Milford School Original
Building; A139670107

CEI LAB CODE: A18-0227

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
EC010418-32		A2585524	White	Ceiling Tile	Amosite 5% Chrysotile 3%
EC010418-33		A2585525	White	Ceiling Tile	Amosite 5% Chrysotile 3%
EC010418-34		A2585526	Black	Adhesive	None Detected
EC010418-35		A2585527	Black	Adhesive	None Detected
EC010418-36		A2585528	Black	Adhesive	None Detected
EC010418-37		A2585529	Gray	Transite	Chrysotile 20%
EC010418-38		A2585530	Gray	Transite	Chrysotile 20%
EC010418-39		A2585531	Gray	Transite	Chrysotile 20%
EC010418-40		A2585532	White	Pipe Insulation	Chrysotile 65%
EC010418-41		A2585533	White	Pipe Insulation	Chrysotile 65%
EC010418-42		A2585534	White	Pipe Insulation	Chrysotile 65%
EC010418-43	Layer 1	A2585535	Gray	Insulation	Chrysotile 30%
	Layer 2	A2585535	White	Insulation	Chrysotile 2% Amosite 5%
EC010418-44	Layer 1	A2585536	Gray	Insulation	Chrysotile 30%
	Layer 2	A2585536	White	Insulation	Chrysotile 2% Amosite 5%
EC010418-45	Layer 1	A2585537	Gray	Insulation	Chrysotile 30%
	Layer 2	A2585537	White	Insulation	Chrysotile 2% Amosite 5%
EC010418-46	Layer 1	A2585538	Gray	Insulation	Chrysotile 30%
	Layer 2	A2585538	White	Insulation	Chrysotile 2% Amosite 5%
EC010418-47	Layer 1	A2585539	Gray	Insulation	Chrysotile 30%
	Layer 2	A2585539	White	Insulation	Chrysotile 2% Amosite 5%
EC010418-48		A2585540	White	Insulation	Chrysotile 2% Amosite 5%
EC010418-49		A2585541	Tan	Window Glazing	Chrysotile 3%
EC010418-50		A2585542	Pink	Window Glazing	Chrysotile 2%
EC010418-51		A2585543	Gray	Window Glazing	None Detected
EC010418-52		A2585544	White	Window Caulk	None Detected



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford- New Milford School Original
Building; A139670107

CEI LAB CODE: A18-0227

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
EC010418-53		A2585545	White	Window Caulk	None Detected
EC010418-54		A2585546	White	Window Caulk	None Detected
EC010418-55	Layer 1	A2585547	White	Plaster Skim Coat	None Detected
	Layer 2	A2585547	Gray	Plaster Base Coat	None Detected
EC010418-56	Layer 1	A2585548	White	Plaster Skim Coat	None Detected
	Layer 2	A2585548	Gray	Plaster Base Coat	None Detected
EC010418-57	Layer 1	A2585549	White	Plaster Skim Coat	None Detected
	Layer 2	A2585549	Gray	Plaster Base Coat	None Detected
EC010418-58	Layer 1	A2585550	White	Plaster Skim Coat	None Detected
	Layer 2	A2585550	Gray	Plaster Base Coat	None Detected
EC010418-59	Layer 1	A2585551	White	Plaster Skim Coat	None Detected
	Layer 2	A2585551	Gray	Plaster Base Coat	None Detected
EC010418-60	Layer 1	A2585552	White	Plaster Skim Coat	None Detected
	Layer 2	A2585552	Gray	Plaster Base Coat	None Detected
EC010418-61	Layer 1	A2585553	White	Plaster Skim Coat	None Detected
	Layer 2	A2585553	Gray	Plaster Base Coat	None Detected
EC010418-62		A2585554	White,Gray	Ceiling Tile	Amosite 5% Chrysotile 2%
EC010418-63		A2585555	White,Gray	Ceiling Tile	Amosite 5% Chrysotile 2%
EC010418-64		A2585556	White,Gray	Ceiling Tile	Amosite 5% Chrysotile 2%
EC010418-65		A2585557	Brown	Adhesive Only	None Detected
EC010418-66		A2585558	Brown	Adhesive Only	None Detected
EC010418-67		A2585559	Brown	Adhesive Only	None Detected
EC010418-68		A2585560	White,Gray	Plaster	None Detected
EC010418-69		A2585561	White,Gray	Plaster	None Detected
EC010418-70		A2585562	White,Gray	Plaster	None Detected
EC010418-71		A2585563	White,Gray	Plaster	None Detected
EC010418-72		A2585564	White,Gray	Plaster	None Detected
EC010418-73		A2585565	Gray	Pipe Joint Insulation	None Detected
EC010418-74		A2585566	Gray	Pipe Joint Insulation	None Detected



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford- New Milford School Original
Building; A139670107

CEI LAB CODE: A18-0227

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
EC010418-75		A2585567	Gray,White	Pipe Joint Insulation	Chrysotile 2%
EC010418-76		A2585568	Gray	Gasket	None Detected
EC010418-77		A2585569	Gray	Gasket	None Detected
EC010418-78		A2585570	Gray	Gasket	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC010418-01 A2585493	Floor Tile	Heterogeneous			60%	Vinyl	2% Chrysotile
		White			30%	Calc Carb	
		Fibrous			8%	Binder	
		Bound					
EC010418-02 A2585494	Floor Tile	Heterogeneous			60%	Vinyl	2% Chrysotile
		White			30%	Calc Carb	
		Fibrous			8%	Binder	
		Bound					
EC010418-03 A2585495	Floor Tile	Heterogeneous			60%	Vinyl	2% Chrysotile
		White			30%	Calc Carb	
		Fibrous			8%	Binder	
		Bound					
EC010418-04 A2585496	Mastic	Heterogeneous	2%	Cellulose	98%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
EC010418-05 A2585497	Mastic	Heterogeneous	2%	Cellulose	98%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
EC010418-06 A2585498	Mastic	Heterogeneous	2%	Cellulose	98%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
EC010418-07 A2585499	Floor Tile	Heterogeneous			60%	Vinyl	10% Chrysotile
		Green			30%	Calc Carb	
		Fibrous					
		Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
EC010418-08 A2585500	Floor Tile	Heterogeneous		60% Vinyl	10% Chrysotile
		Green		30% Calc Carb	
		Fibrous			
		Bound			
EC010418-09 A2585501	Floor Tile	Heterogeneous		60% Vinyl	10% Chrysotile
		Green		30% Calc Carb	
		Fibrous			
		Bound			
EC010418-10 A2585502	Mastic	Heterogeneous		90% Tar	2% Chrysotile
		Black		8% Silicates	
		Fibrous			
		Bound			
EC010418-11 A2585503	Mastic	Heterogeneous		90% Tar	2% Chrysotile
		Black		8% Silicates	
		Fibrous			
		Bound			
EC010418-12 A2585504	Mastic	Heterogeneous		90% Tar	2% Chrysotile
		Black		8% Silicates	
		Fibrous			
		Bound			
EC010418-13 A2585505	Floor Tile	Heterogeneous	2%	Cellulose	None Detected
		Gray		60% Vinyl	
		Fibrous		30% Calc Carb	
		Bound		8% Binder	
EC010418-14 A2585506	Floor Tile	Heterogeneous	2%	Cellulose	None Detected
		Gray		60% Vinyl	
		Fibrous		30% Calc Carb	
		Bound		8% Binder	



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC010418-15 A2585507	Floor Tile	Heterogeneous	2%	Cellulose	60%	Vinyl	None Detected
		Gray			30%	Calc Carb	
		Fibrous			8%	Binder	
		Bound					
EC010418-16 A2585508	Mastic	Heterogeneous	2%	Cellulose	98%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
EC010418-17 A2585509	Mastic	Heterogeneous	2%	Cellulose	98%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
EC010418-18 A2585510	Mastic	Heterogeneous	2%	Cellulose	98%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
EC010418-19 A2585511	Floor Tile	Heterogeneous			60%	Vinyl	10% Chrysotile
		Green			30%	Calc Carb	
		Fibrous					
		Bound					
EC010418-20 A2585512	Floor Tile	Heterogeneous			60%	Vinyl	10% Chrysotile
		Green			30%	Calc Carb	
		Fibrous					
		Bound					
EC010418-21 A2585513	Floor Tile	Heterogeneous			60%	Vinyl	10% Chrysotile
		Green			30%	Calc Carb	
		Fibrous					
		Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC010418-22 A2585514	Mastic	Heterogeneous	2%	Cellulose	90%	Tar	None Detected
		Black			8%	Binder	
		Fibrous					
		Bound					
EC010418-23 A2585515	Mastic	Heterogeneous	2%	Cellulose	90%	Tar	None Detected
		Black			8%	Binder	
		Fibrous					
		Bound					
EC010418-24 A2585516	Mastic	Heterogeneous	2%	Cellulose	90%	Tar	None Detected
		Black			8%	Binder	
		Fibrous					
		Bound					
EC010418-25 A2585517	Ceiling Tile	Heterogeneous	30%	Cellulose	30%	Perlite	None Detected
		White	15%	Fiberglass	20%	Binder	
		Fibrous			5%	Paint	
		Loosely Bound					
EC010418-26 A2585518	Ceiling Tile	Heterogeneous	30%	Cellulose	30%	Perlite	None Detected
		White	15%	Fiberglass	20%	Binder	
		Fibrous			5%	Paint	
		Loosely Bound					
EC010418-27 A2585519	Ceiling Tile	Heterogeneous	30%	Cellulose	30%	Perlite	None Detected
		White	15%	Fiberglass	20%	Binder	
		Fibrous			5%	Paint	
		Loosely Bound					
EC010418-28 A2585520	Ceiling Tile	Heterogeneous	40%	Fiberglass	20%	Calc Carb	5% Amosite
		White	10%	Mineral Wool	20%	Binder	
		Fibrous			5%	Paint	
		Loosely Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227
Date Received: 01-05-18
Date Analyzed: 01-08-18
Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC010418-29 A2585521	Ceiling Tile	Heterogeneous	40%	Fiberglass	20%	Calc Carb	5% Amosite
		White	10%	Mineral Wool	20%	Binder	
		Fibrous			5%	Paint	
		Loosely Bound					
EC010418-30 A2585522	Ceiling Tile	Heterogeneous	40%	Fiberglass	20%	Calc Carb	5% Amosite
		White	10%	Mineral Wool	20%	Binder	
		Fibrous			5%	Paint	
		Loosely Bound					
EC010418-31 A2585523	Ceiling Tile	Heterogeneous	40%	Fiberglass	20%	Calc Carb	5% Amosite 3% Chrysotile
		White	7%	Mineral Wool	20%	Binder	
		Fibrous			5%	Paint	
		Loosely Bound					
EC010418-32 A2585524	Ceiling Tile	Heterogeneous	40%	Fiberglass	20%	Calc Carb	5% Amosite 3% Chrysotile
		White	7%	Mineral Wool	20%	Binder	
		Fibrous			5%	Paint	
		Loosely Bound					
EC010418-33 A2585525	Ceiling Tile	Heterogeneous	40%	Fiberglass	20%	Calc Carb	5% Amosite 3% Chrysotile
		White	7%	Mineral Wool	20%	Binder	
		Fibrous			5%	Paint	
		Loosely Bound					
EC010418-34 A2585526	Adhesive	Heterogeneous	2%	Cellulose	98%	Tar	None Detected
		Black					
		Fibrous					
		Bound					
EC010418-35 A2585527	Adhesive	Heterogeneous	2%	Cellulose	98%	Tar	None Detected
		Black					
		Fibrous					
		Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC010418-36 A2585528	Adhesive	Heterogeneous Black Fibrous Bound	2%	Cellulose	98%	Tar	None Detected
EC010418-37 A2585529	Transite	Heterogeneous Gray Fibrous Loosely Bound			60%	Binder	20% Chrysotile
					20%	Calc Carb	
EC010418-38 A2585530	Transite	Heterogeneous Gray Fibrous Loosely Bound			60%	Binder	20% Chrysotile
					20%	Calc Carb	
EC010418-39 A2585531	Transite	Heterogeneous Gray Fibrous Loosely Bound			60%	Binder	20% Chrysotile
					20%	Calc Carb	
EC010418-40 A2585532	Pipe Insulation	Heterogeneous White Fibrous Loose			35%	Binder	65% Chrysotile
EC010418-41 A2585533	Pipe Insulation	Heterogeneous White Fibrous Loose			35%	Binder	65% Chrysotile
EC010418-42 A2585534	Pipe Insulation	Heterogeneous White Fibrous Loose			35%	Binder	65% Chrysotile



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
EC010418-43 Layer 1 A2585535	Insulation	Heterogeneous		40% Calc Carb	30% Chrysotile
		Gray		30% Binder	
		Fibrous			
		Loose			
Layer 2 A2585535	Insulation	Heterogeneous		80% Calc Carb	2% Chrysotile 5% Amosite
		White		13% Binder	
		Fibrous			
		Loose			
EC010418-44 Layer 1 A2585536	Insulation	Heterogeneous		40% Calc Carb	30% Chrysotile
		Gray		30% Binder	
		Fibrous			
		Loose			
Layer 2 A2585536	Insulation	Heterogeneous		80% Calc Carb	2% Chrysotile 5% Amosite
		White		13% Binder	
		Fibrous			
		Loose			
EC010418-45 Layer 1 A2585537	Insulation	Heterogeneous		40% Calc Carb	30% Chrysotile
		Gray		30% Binder	
		Fibrous			
		Loose			
Layer 2 A2585537	Insulation	Heterogeneous		80% Calc Carb	2% Chrysotile 5% Amosite
		White		13% Binder	
		Fibrous			
		Loose			
EC010418-46 Layer 1 A2585538	Insulation	Heterogeneous		40% Calc Carb	30% Chrysotile
		Gray		30% Binder	
		Fibrous			
		Loose			



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
Layer 2 A2585538	Insulation	Heterogeneous		80% Calc Carb	2% Chrysotile 5% Amosite
		White		13% Binder	
		Fibrous			
		Loose			
EC010418-47 Layer 1 A2585539	Insulation	Heterogeneous		40% Calc Carb	30% Chrysotile
		Gray		30% Binder	
		Fibrous			
		Loose			
Layer 2 A2585539	Insulation	Heterogeneous		80% Calc Carb	2% Chrysotile 5% Amosite
		White		13% Binder	
		Fibrous			
		Loose			
EC010418-48 A2585540	Insulation	Heterogeneous		80% Calc Carb	2% Chrysotile 5% Amosite
		White		13% Binder	
		Fibrous			
		Loose			
EC010418-49 A2585541	Window Glazing	Heterogeneous		70% Calc Carb	3% Chrysotile
		Tan		20% Binder	
		Fibrous		7% Paint	
		Loosely Bound			
EC010418-50 A2585542	Window Glazing	Heterogeneous		70% Calc Carb	2% Chrysotile
		Pink		20% Binder	
		Fibrous		8% Paint	
		Loosely Bound			
EC010418-51 A2585543	Window Glazing	Heterogeneous	2%	Talc 70% Calc Carb	None Detected
		Gray		20% Binder	
		Fibrous		8% Paint	
		Loosely Bound			



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC010418-52 A2585544	Window Caulk	Heterogeneous White Fibrous Loosely Bound	2%	Cellulose	98%	Caulk	None Detected
EC010418-53 A2585545	Window Caulk	Heterogeneous White Fibrous Loosely Bound	2%	Cellulose	98%	Caulk	None Detected
EC010418-54 A2585546	Window Caulk	Heterogeneous White Fibrous Loosely Bound	2%	Cellulose	98%	Caulk	None Detected
EC010418-55 Layer 1 A2585547	Plaster Skim Coat	Heterogeneous White Non-fibrous Bound			50% 45% 5%	Binder Calc Carb Paint	None Detected
Layer 2 A2585547	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1% <1%	Cellulose Hair	60% 30% 10%	Silicates Calc Carb Binder	None Detected
EC010418-56 Layer 1 A2585548	Plaster Skim Coat	Heterogeneous White Non-fibrous Bound			50% 45% 5%	Binder Calc Carb Paint	None Detected
Layer 2 A2585548	Plaster Base Coat	Heterogeneous Gray Fibrous Bound	<1% <1%	Cellulose Hair	60% 30% 10%	Silicates Calc Carb Binder	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC010418-57 Layer 1 A2585549	Plaster Skim Coat	Heterogeneous			50%	Binder	None Detected
		White			45%	Calc Carb	
		Non-fibrous			5%	Paint	
		Bound					
Layer 2 A2585549	Plaster Base Coat	Heterogeneous	<1%	Cellulose	60%	Silicates	None Detected
		Gray	<1%	Hair	30%	Calc Carb	
		Fibrous			10%	Binder	
		Bound					
EC010418-58 Layer 1 A2585550	Plaster Skim Coat	Heterogeneous			50%	Binder	None Detected
		White			45%	Calc Carb	
		Non-fibrous			5%	Paint	
		Bound					
Layer 2 A2585550	Plaster Base Coat	Heterogeneous	<1%	Cellulose	60%	Silicates	None Detected
		Gray	<1%	Hair	30%	Calc Carb	
		Fibrous			10%	Binder	
		Bound					
EC010418-59 Layer 1 A2585551	Plaster Skim Coat	Heterogeneous			50%	Binder	None Detected
		White			45%	Calc Carb	
		Non-fibrous			5%	Paint	
		Bound					
Layer 2 A2585551	Plaster Base Coat	Heterogeneous	<1%	Cellulose	60%	Silicates	None Detected
		Gray	<1%	Hair	30%	Calc Carb	
		Fibrous			10%	Binder	
		Bound					
EC010418-60 Layer 1 A2585552	Plaster Skim Coat	Heterogeneous			50%	Binder	None Detected
		White			45%	Calc Carb	
		Non-fibrous			5%	Paint	
		Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
Layer 2 A2585552	Plaster Base Coat	Heterogeneous	<1%	Cellulose	60%	Silicates	None Detected
		Gray	<1%	Hair	30%	Calc Carb	
		Fibrous			10%	Binder	
		Bound					
EC010418-61 Layer 1 A2585553	Plaster Skim Coat	Heterogeneous			50%	Binder	None Detected
		White			45%	Calc Carb	
		Non-fibrous			5%	Paint	
		Bound					
Layer 2 A2585553	Plaster Base Coat	Heterogeneous	<1%	Cellulose	60%	Silicates	None Detected
		Gray	<1%	Hair	30%	Calc Carb	
		Fibrous			10%	Binder	
		Bound					
EC010418-62 A2585554	Ceiling Tile	Heterogeneous	50%	Fiberglass	10%	Calc Carb	5% Amosite 2% Chrysotile
		White,Gray	10%	Mineral Wool	15%	Binder	
		Fibrous			8%	Paint	
		Bound					
EC010418-63 A2585555	Ceiling Tile	Heterogeneous	50%	Fiberglass	10%	Calc Carb	5% Amosite 2% Chrysotile
		White,Gray	10%	Mineral Wool	15%	Binder	
		Fibrous			8%	Paint	
		Bound					
EC010418-64 A2585556	Ceiling Tile	Heterogeneous	50%	Fiberglass	10%	Calc Carb	5% Amosite 2% Chrysotile
		White,Gray	10%	Mineral Wool	15%	Binder	
		Fibrous			8%	Paint	
		Bound					
EC010418-65 A2585557	Adhesive Only	Heterogeneous	2%	Cellulose	98%	Mastic	None Detected
		Brown					
		Fibrous					
		Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC010418-66 A2585558	Adhesive Only	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
EC010418-67 A2585559	Adhesive Only	Heterogeneous Brown Fibrous Bound	2%	Cellulose	98%	Mastic	None Detected
EC010418-68 A2585560	Plaster	Heterogeneous White,Gray Fibrous Bound	<1% <1%	Cellulose Hair	70% 30% <1%	Silicates Binder Paint	None Detected
EC010418-69 A2585561	Plaster	Heterogeneous White,Gray Fibrous Bound	<1% <1%	Cellulose Hair	70% 30% <1%	Silicates Binder Paint	None Detected
EC010418-70 A2585562	Plaster	Heterogeneous White,Gray Fibrous Bound	<1% <1%	Cellulose Hair	70% 30% <1%	Silicates Binder Paint	None Detected
EC010418-71 A2585563	Plaster	Heterogeneous White,Gray Fibrous Bound	<1% <1%	Cellulose Hair	70% 30% <1%	Silicates Binder Paint	None Detected
EC010418-72 A2585564	Plaster	Heterogeneous White,Gray Fibrous Bound	<1% <1%	Cellulose Hair	70% 30% <1%	Silicates Binder Paint	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0227

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-09-18

Project: Rockford- New Milford School Original Building; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC010418-73 A2585565	Pipe Joint Insulation	Heterogeneous	20%	Fiberglass	50%	Calc Carb	None Detected
		Gray	5%	Mineral Wool	25%	Binder	
		Fibrous					
		Loose					
EC010418-74 A2585566	Pipe Joint Insulation	Heterogeneous	20%	Fiberglass	50%	Calc Carb	None Detected
		Gray	5%	Mineral Wool	25%	Binder	
		Fibrous					
		Loose					
EC010418-75 A2585567	Pipe Joint Insulation	Heterogeneous	20%	Fiberglass	40%	Calc Carb	2% Chrysotile
		Gray,White	5%	Mineral Wool	10%	Binder	
		Fibrous	15%	Cellulose	8%	Paint	
		Loose					
EC010418-76 A2585568	Gasket	Heterogeneous	100%	Fiberglass	<1%	Non-Fibrous Debris	None Detected
		Gray					
		Fibrous					
		Loose					
EC010418-77 A2585569	Gasket	Heterogeneous	100%	Fiberglass	<1%	Non-Fibrous Debris	None Detected
		Gray					
		Fibrous					
		Loose					
EC010418-78 A2585570	Gasket	Heterogeneous	100%	Fiberglass	<1%	Non-Fibrous Debris	None Detected
		Gray					
		Fibrous					
		Loose					



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

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

REPORTING LIMIT: <1% by visual estimation

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

REGULATORY LIMIT: >1% by weight

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

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

ANALYST: Sarah Talley
Sarah Talley

APPROVED BY: Tianbao Bai
Tianbao Bai, Ph.D., CIH
Laboratory Director





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

ASBESTOS CHAIN OF CUSTODY

78118-0227
A2585493
A2585570

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Daniel Duneau
Company: Cannon Combeart & Assoc., Ltd.	Email / Tel: DDuneau@ca1td.com
Address: 600 W. Van Buren St. Suite 500 Chicago, IL - 60607	Project Name: Rockford-New Milford School original Bldg
Email: DDuneau@ca1td.com	Project ID#: A139670107
Tel: 312 907 0642 Fax: 312 782 5145	PO #:
STATE SAMPLES COLLECTED IN: Illinois	

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05 (2010)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-13			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS / SPECIAL INSTRUCTIONS:

Please Email results to DDuneau@ca1td.com
Echristian@ca1td.com

<input checked="" type="checkbox"/>	Accept Samples
<input type="checkbox"/>	Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	01/04/2018	Red Ex Shipping	01/04/2018

Samples will be disposed of 30 days after analysis

Page 1 of 1



ASBESTOS

ACM BULK SAMPLING FORM

CARNOW CONIBEAR

A139670107

COMPANY CONTACT INFORMATION

Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Duneau / Evan Christian
Client Name: Rockford Public Schools	Email/Contact: dduneau@ccaltltd.com
Project Location: New Milford School - Original Building	Project No.: A139670107

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST	
			PLM	TEM
EC010418-01	9"x9" White Floor Tile	Original Bldg - Lower Level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-02	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-03	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-04	Black Mastic below 9x9 white	Original Bldg - Lower Level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-05	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-06	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-07	9"x9" Green Floor Tile	Original Bldg - Upper Level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-08	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-09	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-10	Black Mastic below 9x9 green	Original Bldg - Upper Level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-11	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-12	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-13	12x12 Gray Floor Tile	Original Bldg - SW Classroom	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-14	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-15	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-16	Black Mastic below 12x12 gray	Original Bldg - SW Classroom	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-17	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-18	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-19	12x12 Green Floor Tile	Original Bldg - NE Classroom	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-20	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-21	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-22	Black Mastic below 12x12 Green	Original Bldg - NE Classroom	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-23	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-24	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-25	2'x4' Suspended Ceiling Tile	Original Bldg - Lower Level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-26	(White/Dot Pattern)	Art/Music	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-27	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-28	2'x2' Suspended Ceiling Tile	Original Bldg - Upper Level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-29	(White/Speckled)	Hall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-30	↓ ↓	↓ ↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>



ASBESTOS

ACM BULK SAMPLING FORM

CARNOW CONIBEAR

118-0227

COMPANY CONTACT INFORMATION

Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Seneau / Evan Christian
Client Name: Rockford Public Schools	Email/Contact: DSeneau@ccatd.com
Project Location: New Milford School - Original Bldg	Project No.: A139670107

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST	
			PLM	TEM
EC010418-31	2'x4' Suspended Ceiling Tile	Original Bldg - Upper Level	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-32	(white / Fissured + Dots)	Classrooms	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-33			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-34	Black Adhesive below wood floor	Original Bldg - Gymnasium	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-35		Gymnasium	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-36		Loft	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-37	Transite Wallboard Material	Original Bldg - Gymnasium	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-38		Air shafts	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-39			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-40	Aircell Pipe Insulation	Original Bldg - Boiler Rm /	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-41		BSMnt	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-42			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-43	Boiler Insulation	Original Bldg - Boiler Rm	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-44			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-45			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-46	Boiler Breaching Insulation	Original Bldg - Boiler Rm	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-47			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-48			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-49	Interior Window Glazing Sealant	Original Bldg - Steel Framed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-50		Windows	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-51			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-52	Exterior Window Caulk	Original Bldg - Steel Framed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-53		Windows	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-54			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-55	Hard Coat wall / Ceiling Plaster	Original Bldg - Walls /	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-56		Ceilings	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-57			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-58			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-59			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-60			<input checked="" type="checkbox"/>	<input type="checkbox"/>



Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Jumeau / Evan Christian
Client Name: Rockford Public Schools	Email/Contact: DJumeau@cca1td.com
Project Location: New Milford School - Original	Project No.: A139670107

Page 3 of 3



January 8, 2018

Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CLIENT PROJECT: Rockford- New Milford School- North Wing; A139670107
CEI LAB CODE: A18-0226

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 5, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

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

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read "Tianbao Bai", written in a cursive style.

Tianbao Bai, Ph.D., CIH
Laboratory Director





ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: Rockford- New Milford School- North Wing; A139670107

CEI LAB CODE: A18-0226

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

REPORT DATE: 01/08/18

TOTAL SAMPLES ANALYZED: 51

SAMPLES >1% ASBESTOS: 14

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford- New Milford School- North Wing; A139670107

CEI LAB CODE: A18-0226

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ010418-01		A2585442	Brown	Floor Tile	Chrysotile 5%
DJ010418-02		A2585443	Brown	Floor Tile	Chrysotile 5%
DJ010418-03		A2585444	Brown	Floor Tile	Chrysotile 5%
DJ010418-04		A2585445	Black	Mastic	None Detected
DJ010418-05		A2585446	Black	Mastic	None Detected
DJ010418-06		A2585447	Black	Mastic	None Detected
DJ010418-07		A2585448	Brown	Floor Tile	Chrysotile 5%
DJ010418-08		A2585449	Brown	Floor Tile	Chrysotile 5%
DJ010418-09		A2585450	Brown	Floor Tile	Chrysotile 5%
DJ010418-10		A2585451	Black	Mastic	None Detected
DJ010418-11		A2585452	Black	Mastic	None Detected
DJ010418-12		A2585453	Black	Mastic	None Detected
DJ010418-13		A2585454	Black	Ceiling Tile	None Detected
DJ010418-14		A2585455	Black	Ceiling Tile	None Detected
DJ010418-15		A2585456	Black	Ceiling Tile	None Detected
DJ010418-16		A2585457	Black	Ceiling Tile	None Detected
DJ010418-17		A2585458	Black	Ceiling Tile	None Detected
DJ010418-18		A2585459	Black	Ceiling Tile	None Detected
DJ010418-19		A2585460	Black	Ceiling Tile	None Detected
DJ010418-20		A2585461	Black	Ceiling Tile	None Detected
DJ010418-21		A2585462	Black	Ceiling Tile	None Detected
DJ010418-22		A2585463	Black	Ceiling Tile	None Detected
DJ010418-23		A2585464	Black	Ceiling Tile	None Detected
DJ010418-24		A2585465	Black	Ceiling Tile	None Detected
DJ010418-25		A2585466	Beige	Textured Ceiling Plaster	Chrysotile 3%
DJ010418-26		A2585467	Beige	Textured Ceiling Plaster	Chrysotile 3%
DJ010418-27		A2585468	Beige	Textured Ceiling Plaster	Chrysotile 3%
DJ010418-28		A2585469	Beige	Textured Ceiling Plaster	Chrysotile 3%
DJ010418-29		A2585470	Beige	Textured Ceiling Plaster	Chrysotile 3%
DJ010418-30		A2585471	White	Hard Coat Ceiling Plaster	None Detected
DJ010418-31		A2585472	White	Hard Coat Ceiling Plaster	None Detected



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford- New Milford School- North Wing; A139670107

CEI LAB CODE: A18-0226

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ010418-32		A2585473	White	Hard Coat Ceiling Plaster	None Detected
DJ010418-33		A2585474	Black	Vinyl Baseboard	None Detected
DJ010418-34		A2585475	Black	Vinyl Baseboard	None Detected
DJ010418-35		A2585476	Black	Vinyl Baseboard	None Detected
DJ010418-36		A2585477	Tan,Cream	Adhesive	None Detected
DJ010418-37		A2585478	Tan,Cream	Adhesive	None Detected
DJ010418-38		A2585479	Tan,Cream	Adhesive	None Detected
DJ010418-39		A2585480	Blue	Linoleum Sheet Flooring	None Detected
DJ010418-40		A2585481	Blue	Linoleum Sheet Flooring	None Detected
DJ010418-41		A2585482	Blue	Linoleum Sheet Flooring	None Detected
DJ010418-42		A2585483	Blue	Aircell Pipe Insulation	Chrysotile 65%
DJ010418-43		A2585484	Blue	Aircell Pipe Insulation	Chrysotile 65%
DJ010418-44		A2585485	Blue	Aircell Pipe Insulation	Chrysotile 65%
DJ010418-45		A2585486	Gray	Window Glazing	None Detected
DJ010418-46		A2585487	Gray	Window Glazing	None Detected
DJ010418-47		A2585488	Gray	Window Glazing	None Detected
DJ010418-48		A2585489	Gray	Window Caulk	None Detected
DJ010418-49		A2585490	Gray	Window Caulk	None Detected
DJ010418-50		A2585491	Gray	Window Caulk	None Detected
DJ010418-51		A2585492	Tan	Linoleum	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0226

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-08-18

Project: Rockford- New Milford School- North Wing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ010418-01 A2585442	Floor Tile	Heterogeneous			65%	Vinyl	5% Chrysotile
		Brown			30%	Calc Carb	
		Fibrous					
		Tightly Bound					
DJ010418-02 A2585443	Floor Tile	Heterogeneous			65%	Vinyl	5% Chrysotile
		Brown			30%	Calc Carb	
		Fibrous					
		Tightly Bound					
DJ010418-03 A2585444	Floor Tile	Heterogeneous			65%	Vinyl	5% Chrysotile
		Brown			30%	Calc Carb	
		Fibrous					
		Tightly Bound					
DJ010418-04 A2585445	Mastic	Heterogeneous	<1%	Cellulose	100%	Mastic	None Detected
		Black					
		Fibrous					
		Bound					
DJ010418-05 A2585446	Mastic	Heterogeneous	<1%	Cellulose	100%	Mastic	None Detected
		Black					
		Fibrous					
		Bound					
DJ010418-06 A2585447	Mastic	Heterogeneous	<1%	Cellulose	100%	Mastic	None Detected
		Black					
		Fibrous					
		Bound					
DJ010418-07 A2585448	Floor Tile	Heterogeneous			65%	Vinyl	5% Chrysotile
		Brown			30%	Calc Carb	
		Fibrous					
		Tightly Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0226

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-08-18

Project: Rockford- New Milford School- North Wing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ010418-08 A2585449	Floor Tile	Heterogeneous			65%	Vinyl	5% Chrysotile
		Brown			30%	Calc Carb	
		Fibrous					
		Tightly Bound					
DJ010418-09 A2585450	Floor Tile	Heterogeneous			65%	Vinyl	5% Chrysotile
		Brown			30%	Calc Carb	
		Fibrous					
		Tightly Bound					
DJ010418-10 A2585451	Mastic	Heterogeneous	<1%	Cellulose	100%	Mastic	None Detected
		Black					
		Fibrous					
		Bound					
DJ010418-11 A2585452	Mastic	Heterogeneous	<1%	Cellulose	100%	Mastic	None Detected
		Black					
		Fibrous					
		Bound					
DJ010418-12 A2585453	Mastic	Heterogeneous	<1%	Cellulose	100%	Mastic	None Detected
		Black					
		Fibrous					
		Bound					
DJ010418-13 A2585454	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					
DJ010418-14 A2585455	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0226

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-08-18

Project: Rockford- New Milford School- North Wing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ010418-15 A2585456	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					
DJ010418-16 A2585457	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					
DJ010418-17 A2585458	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					
DJ010418-18 A2585459	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					
DJ010418-19 A2585460	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					
DJ010418-20 A2585461	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					
DJ010418-21 A2585462	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0226

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-08-18

Project: Rockford- New Milford School- North Wing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ010418-22 A2585463	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					
DJ010418-23 A2585464	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					
DJ010418-24 A2585465	Ceiling Tile	Heterogeneous	35%	Cellulose	30%	Perlite	None Detected
		Black	32%	Fiberglass	3%	Paint	
		Fibrous					
		Bound					
DJ010418-25 A2585466	Textured Ceiling Plaster	Heterogeneous	20%	Cellulose	74%	Binder	3% Chrysotile
		Beige			3%	Paint	
		Fibrous					
		Loose					
DJ010418-26 A2585467	Textured Ceiling Plaster	Heterogeneous	20%	Cellulose	74%	Binder	3% Chrysotile
		Beige			3%	Paint	
		Fibrous					
		Loose					
DJ010418-27 A2585468	Textured Ceiling Plaster	Heterogeneous	20%	Cellulose	74%	Binder	3% Chrysotile
		Beige			3%	Paint	
		Fibrous					
		Loose					
DJ010418-28 A2585469	Textured Ceiling Plaster	Heterogeneous	20%	Cellulose	74%	Binder	3% Chrysotile
		Beige			3%	Paint	
		Fibrous					
		Loose					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0226

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-08-18

Project: Rockford- New Milford School- North Wing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ010418-29 A2585470	Textured Ceiling Plaster	Heterogeneous	20%	Cellulose	74%	Binder	3% Chrysotile
		Beige			3%	Paint	
		Fibrous					
		Loose					
DJ010418-30 A2585471	Hard Coat Ceiling Plaster	Heterogeneous	<1%	Cellulose	5%	Paint	None Detected
		White			65%	Silicates	
		Fibrous			30%	Binder	
		Bound					
DJ010418-31 A2585472	Hard Coat Ceiling Plaster	Heterogeneous	<1%	Cellulose	5%	Paint	None Detected
		White			65%	Silicates	
		Fibrous			30%	Binder	
		Bound					
DJ010418-32 A2585473	Hard Coat Ceiling Plaster	Heterogeneous	<1%	Cellulose	5%	Paint	None Detected
		White			65%	Silicates	
		Fibrous			30%	Binder	
		Bound					
DJ010418-33 A2585474	Vinyl Baseboard	Heterogeneous	<1%	Cellulose	100%	Vinyl	None Detected
		Black					
		Fibrous					
		Bound					
DJ010418-34 A2585475	Vinyl Baseboard	Heterogeneous	<1%	Cellulose	100%	Vinyl	None Detected
		Black					
		Fibrous					
		Bound					
DJ010418-35 A2585476	Vinyl Baseboard	Heterogeneous	<1%	Cellulose	100%	Vinyl	None Detected
		Black					
		Fibrous					
		Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0226

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-08-18

Project: Rockford- New Milford School- North Wing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ010418-36 A2585477	Adhesive	Heterogeneous Tan, Cream Fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
DJ010418-37 A2585478	Adhesive	Heterogeneous Tan, Cream Fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
DJ010418-38 A2585479	Adhesive	Heterogeneous Tan, Cream Fibrous Bound	<1%	Cellulose	100%	Mastic	None Detected
DJ010418-39 A2585480	Linoleum Sheet Flooring	Heterogeneous Blue Fibrous Bound	25%	Cellulose	75%	Vinyl	None Detected
DJ010418-40 A2585481	Linoleum Sheet Flooring	Heterogeneous Blue Fibrous Bound	25%	Cellulose	75%	Vinyl	None Detected
DJ010418-41 A2585482	Linoleum Sheet Flooring	Heterogeneous Blue Fibrous Bound	25%	Cellulose	75%	Vinyl	None Detected
DJ010418-42 A2585483	Aircell Pipe Insulation	Heterogeneous Blue Fibrous Bound			3% 32%	Paint Binder	65% Chrysotile



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0226

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-08-18

Project: Rockford- New Milford School- North Wing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
DJ010418-43 A2585484	Aircell Pipe Insulation	Heterogeneous		3% Paint	65% Chrysotile
		Blue		32% Binder	
		Fibrous			
		Bound			
DJ010418-44 A2585485	Aircell Pipe Insulation	Heterogeneous		3% Paint	65% Chrysotile
		Blue		32% Binder	
		Fibrous			
		Bound			
DJ010418-45 A2585486	Window Glazing	Heterogeneous		100% Binder	None Detected
		Gray			
		Fibrous			
		Bound			
DJ010418-46 A2585487	Window Glazing	Heterogeneous		100% Binder	None Detected
		Gray			
		Fibrous			
		Bound			
DJ010418-47 A2585488	Window Glazing	Heterogeneous		100% Binder	None Detected
		Gray			
		Fibrous			
		Bound			
DJ010418-48 A2585489	Window Caulk	Heterogeneous		100% Caulk	None Detected
		Gray			
		Fibrous			
		Bound			
DJ010418-49 A2585490	Window Caulk	Heterogeneous		100% Caulk	None Detected
		Gray			
		Fibrous			
		Bound			



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0226

Date Received: 01-05-18

Date Analyzed: 01-08-18

Date Reported: 01-08-18

Project: Rockford- New Milford School- North Wing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID	Lab	Lab	NON-ASBESTOS COMPONENTS				ASBESTOS
Lab ID	Description	Attributes	Fibrous		Non-Fibrous		%
DJ010418-50 A2585491	Window Caulk	Heterogeneous Gray Fibrous Bound			100% Caulk		None Detected
DJ010418-51 A2585492	Linoleum	Heterogeneous Tan Fibrous Bound	30%	Cellulose	3% Mastic 47% Tar 20% Vinyl		None Detected



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

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

REPORTING LIMIT: <1% by visual estimation

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

REGULATORY LIMIT: >1% by weight

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

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

ANALYST:

A handwritten signature in black ink, appearing to read "Saithya Paikal", written over a horizontal line.

Saithya Paikal

APPROVED BY:

A handwritten signature in black ink, appearing to read "Tianbao Bai", written over a horizontal line.

Tianbao Bai, Ph.D., CIH
Laboratory Director





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

ASBESTOS CHAIN OF CUSTODY

51 A18-0226
A2585442
A2585492

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Daniel Duneau
Company: Cannon Conibear & Assoc.	Email / Tel: dduneau@cca1td.com
Address: 600 W. Van Buren St., Suite 500 Chicago, Illinois 60607	Project Name: Rockford - New Milford - North Wing
Email: dduneau@cca1td.com	Project ID#: A139670107
Tel: 312 907 0642 Fax: 312 782 5145	PO #:
STATE SAMPLES COLLECTED IN: Illinois	

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05 (2010)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-13			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS / SPECIAL INSTRUCTIONS: Please Email results to dduneau@cca1td.com Echristian@cca1td.com		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By:	Date/Time	Received By:	Date/Time
	01/04/2018	FedEx Shipping A	01/04/2018 15:18, 1040

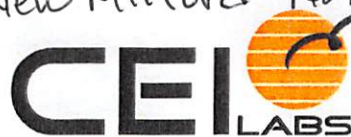
Samples will be disposed of 30 days after analysis

Page 1 of 1

COMPANY CONTACT INFORMATION

Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Duneau License 100-03613
Client Name: Rockford Public Schools	Email/Contact: dduneau@ccaltl.com
Project Location: New Milford School - North Wing	Project No.: A139670107

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST	
			PLM	TEM
DS010418-01	9x9 Brown Floor Tile	North Wing 110	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-02	↓	↓ Lower Hall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-03	↓	↓ Cafeteria	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-04	Black Mastic below 9x9 Brown	North Wing 110	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-05	↓	↓ Lower Hall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-06	↓	↓ Cafeteria	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-07	12x12 Brown Floor Tile	North Wing Upper Hall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-08	↓	↓ 210	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-09	↓	↓ 212	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-10	Black Mastic below 12x12 Brown	North Wing Upper Hall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-11	↓	↓ 210	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-12	↓	↓ 212	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-13	1x1 Spline Ceiling Tile	North Wing 110	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-14	(White/Fissured)	110	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-15	↓	110	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-16	1x1 Spline Ceiling Tile	North Wing Lower Hall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-17	(White/Dotted)	111	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-18	↓	↓ Cafeteria	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-19	2x2 Suspended Ceiling Tile	North Wing Lower Hall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-20	(White/Fissured)	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-21	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-22	2x2 Suspended Ceiling Tile	North Wing Upper Hall	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-23	(White/Speckled)	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-24	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-25	Textured Ceiling Plaster	North Wing 208	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-26	↓	↓ 209	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-27	↓	↓ 210	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-28	↓	↓ 211	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-29	↓	↓ 212	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>



ASBESTOS ACM BULK SAMPLING FORM

CARNOW CONIBEAR

A18-0226

COMPANY CONTACT INFORMATION

Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Juneau 100-03613
Client Name: Rockford Public Schools	Email/Contact: DJuneau@cca1td.com
Project Location: New Milford School - North Wing	Project No.: A139670107

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST	
			PLM	TEM
DJ010419-30	Hard Coat Ceiling Plaster	North Wing Boys	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-31	↓	Girls	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-32	↓	Kitchen	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-33	Vinyl Baseboard	North Wing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-34	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
-35	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
-36	Adhesive for Vinyl Baseboard	North Wing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-37	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
-38	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
-39	Blue Linoleum Sheet Flooring	North Wing 208	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-40	Aircell Pipe Insulation	208	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-41	↓	208	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-42	Aircell Pipe Insulation	North Wing Above Ceiling Aircells	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-43	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
-44	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
-45	Exterior Window Glazing Sealant	North Wing - Aluminum Windows	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-46	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
-47	↓		<input checked="" type="checkbox"/>	<input type="checkbox"/>
-48	Exterior Window Caulk	North Wing - Aluminum Windows	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-49			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-50			<input checked="" type="checkbox"/>	<input type="checkbox"/>
-51	Linoleum on Countertops	North Wing 211	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>



January 4, 2018

Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CLIENT PROJECT: Rockford- New Milford School Eastwing; A139670107
CEI LAB CODE: A18-0023

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 2, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

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

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

A handwritten signature in black ink, appearing to read "Tianbao Bai", written in a cursive style.

Tianbao Bai, Ph.D., CIH
Laboratory Director





ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: Rockford- New Milford School Eastwing; A139670107

CEI LAB CODE: A18-0023

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

REPORT DATE: 01/04/18

TOTAL SAMPLES ANALYZED: 78

SAMPLES >1% ASBESTOS: 27

TEL: 866-481-1412

www.ceilabs.com



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford- New Milford School Eastwing; **CEI LAB CODE:** A18-0023
A139670107

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ122917-01		A2582597	Beige	Floor Tile	None Detected
DJ122917-02		A2582598	Tan	Floor Tile	Chrysotile 5%
DJ122917-03		A2582599	Gray	Floor Tile	None Detected
DJ122917-04		A2582600	Black	Mastic	Chrysotile 5%
DJ122917-05		A2582601	Black	Mastic	Chrysotile 3%
DJ122917-06		A2582602	Black	Mastic	Chrysotile 5%
DJ122917-07		A2582603	Gray	Ceiling Tile	None Detected
DJ122917-08		A2582604	Gray	Ceiling Tile	None Detected
DJ122917-09		A2582605	Gray	Ceiling Tile	None Detected
DJ122917-10		A2582606	Brown	Adhesive	None Detected
DJ122917-11		A2582607	Brown	Adhesive	None Detected
DJ122917-12		A2582608	Brown	Adhesive	None Detected
DJ122917-13		A2582609	White	Drywall	None Detected
DJ122917-14		A2582610	White	Drywall	None Detected
DJ122917-15		A2582611	White	Drywall	None Detected
DJ122917-16		A2582612	Beige	Tectum	None Detected
DJ122917-17		A2582613	Beige	Tectum	None Detected
DJ122917-18		A2582614	Beige	Tectum	None Detected
DJ122917-19	Layer 1	A2582615	White,Blue	Plaster Skim Coat	None Detected
	Layer 2	A2582615	Gray	Plaster Base Coat	None Detected
DJ122917-20	Layer 1	A2582616	White,Blue	Plaster Skim Coat	None Detected
	Layer 2	A2582616	Gray	Plaster Base Coat	None Detected
DJ122917-21	Layer 1	A2582617	White	Plaster Skim Coat	None Detected
	Layer 2	A2582617	Gray	Plaster Base Coat	None Detected
DJ122917-22	Layer 1	A2582618	White	Plaster Skim Coat	None Detected
	Layer 2	A2582618	Gray	Plaster Base Coat	None Detected
DJ122917-23	Layer 1	A2582619	White	Plaster Skim Coat	None Detected
	Layer 2	A2582619	Gray	Plaster Base Coat	None Detected
DJ122917-24		A2582620	Gray	Floor Tile	None Detected
DJ122917-25		A2582621	Gray	Floor Tile	None Detected
DJ122917-26		A2582622	Gray	Floor Tile	None Detected



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford- New Milford School Eastwing; **CEI LAB CODE:** A18-0023
A139670107

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ122917-27		A2582623	Black	Mastic	Chrysotile 3%
DJ122917-28		A2582624	Black	Mastic	Chrysotile 3%
DJ122917-29		A2582625	Black	Mastic	Chrysotile 3%
DJ122917-30		A2582626	Beige	Floor Tile	None Detected
DJ122917-31		A2582627	Beige	Floor Tile	None Detected
DJ122917-32		A2582628	Beige	Floor Tile	None Detected
DJ122917-33		A2582629	Black	Mastic	Chrysotile 3%
DJ122917-34		A2582630	Black	Mastic	Chrysotile 3%
DJ122917-35		A2582631	Black	Mastic	Chrysotile 3%
DJ122917-36		A2582632	White,Gray	Ceiling Tile	None Detected
DJ122917-37		A2582633	White,Gray	Ceiling Tile	None Detected
DJ122917-38		A2582634	White,Gray	Ceiling Tile	None Detected
DJ122917-39		A2582635	White	Drywall	None Detected
DJ122917-40		A2582636	White	Drywall	None Detected
DJ122917-41		A2582637	White	Drywall	None Detected
DJ122917-42		A2582638	White,Beige	Joint Compound	None Detected
DJ122917-43		A2582639	White,Beige	Joint Compound	None Detected
DJ122917-44		A2582640	White,Beige	Joint Compound	None Detected
DJ122917-45		A2582641	Yellow,Black	Carpet Adhesive & Mastic	Chrysotile <1%
DJ122917-46		A2582642	Yellow,Black	Carpet Adhesive & Mastic	Chrysotile 2%
DJ122917-47		A2582643	Yellow,Black	Carpet Adhesive & Mastic	Chrysotile 2%
DJ122917-48		A2582644	White,Brown	Floor Tile	Chrysotile 3%
DJ122917-49		A2582645	White,Brown	Floor Tile	Chrysotile 3%
DJ122917-50		A2582646	White,Brown	Floor Tile	Chrysotile 3%
DJ122917-51		A2582647	Black	Mastic	Chrysotile 5%
DJ122917-52		A2582648	Black	Mastic	Chrysotile 5%
DJ122917-53		A2582649	Black	Mastic	Chrysotile 5%
DJ122917-54		A2582650	Gray	Pipe Joint Insulation	Chrysotile 15%
DJ122917-55		A2582651	Gray	Pipe Joint Insulation	Chrysotile 35%
DJ122917-56		A2582652	Gray	Pipe Joint Insulation	Chrysotile 15%



Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford- New Milford School Eastwing; **CEI LAB CODE:** A18-0023
A139670107

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ122917-57		A2582653	Gray	Boiler Breeching Insulation	Chrysotile 20% Amosite 2%
DJ122917-58		A2582654	Gray	Boiler Breeching Insulation	Chrysotile 20% Amosite 2%
DJ122917-59		A2582655	Gray	Boiler Breeching Insulation	Chrysotile 20% Amosite 2%
DJ122917-60		A2582656	Black	Adhesive	None Detected
DJ122917-61		A2582657	Black	Adhesive	None Detected
DJ122917-62		A2582658	Black	Adhesive	None Detected
DJ122917-63		A2582659	Off-white	Canvas Covering	None Detected
DJ122917-64		A2582660	Off-white	Canvas Covering	None Detected
DJ122917-65		A2582661	Off-white	Canvas Covering	None Detected
DJ122917-66		A2582662	Black	Vibration Collar	None Detected
DJ122917-67		A2582663	Black	Vibration Collar	None Detected
DJ122917-68		A2582664	Black	Vibration Collar	None Detected
DJ122917-69		A2582665	White	Sink Undercoating	None Detected
DJ122917-70		A2582666	Gray	Glazing Sealant	Chrysotile 2%
DJ122917-71		A2582667	Gray	Glazing Sealant	Chrysotile 2%
DJ122917-72		A2582668	Gray	Glazing Sealant	Chrysotile 2%
DJ122917-73		A2582669	Gray	Adhesive	None Detected
DJ122917-74		A2582670	Gray	Adhesive	None Detected
DJ122917-75		A2582671	Gray	Adhesive	None Detected
DJ122917-76		A2582672	Gray	Caulking	None Detected
DJ122917-77		A2582673	Gray	Caulking	None Detected
DJ122917-78		A2582674	Gray	Caulking	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ122917-01 A2582597	Floor Tile	Heterogeneous Beige Non-fibrous Bound			100%	Vinyl	None Detected
DJ122917-02 A2582598	Floor Tile	Heterogeneous Tan Non-fibrous Bound			95%	Vinyl	5% Chrysotile
DJ122917-03 A2582599	Floor Tile	Heterogeneous Gray Non-fibrous Bound			100%	Vinyl	None Detected
DJ122917-04 A2582600	Mastic	Heterogeneous Black Non-fibrous Bound			95%	Mastic	5% Chrysotile
DJ122917-05 A2582601	Mastic	Heterogeneous Black Non-fibrous Bound			97%	Mastic	3% Chrysotile
DJ122917-06 A2582602	Mastic	Heterogeneous Black Non-fibrous Bound			95%	Mastic	5% Chrysotile
DJ122917-07 A2582603	Ceiling Tile	Heterogeneous Gray Non-fibrous Bound	5% 75%	Cellulose Fiberglass	10% 5% 5%	Binder Silicates Paint	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ122917-08 A2582604	Ceiling Tile	Heterogeneous	5%	Cellulose	10%	Binder	None Detected
		Gray	75%	Fiberglass	5%	Silicates	
		Non-fibrous			5%	Paint	
		Bound					
DJ122917-09 A2582605	Ceiling Tile	Heterogeneous	5%	Cellulose	10%	Binder	None Detected
		Gray	75%	Fiberglass	5%	Silicates	
		Non-fibrous			5%	Paint	
		Bound					
DJ122917-10 A2582606	Adhesive	Homogeneous			100%	Mastic	None Detected
		Brown					
		Non-fibrous					
		Bound					
DJ122917-11 A2582607	Adhesive	Homogeneous			100%	Mastic	None Detected
		Brown					
		Non-fibrous					
		Bound					
DJ122917-12 A2582608	Adhesive	Homogeneous			100%	Mastic	None Detected
		Brown					
		Non-fibrous					
		Bound					
DJ122917-13 A2582609	Drywall	Heterogeneous	10%	Cellulose	90%	Gypsum	None Detected
		White					
		Fibrous					
		Bound					
DJ122917-14 A2582610	Drywall	Heterogeneous	10%	Cellulose	90%	Gypsum	None Detected
		White					
		Fibrous					
		Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ122917-15 A2582611	Drywall	Heterogeneous White Fibrous Bound	10%	Cellulose	90%	Gypsum	None Detected
DJ122917-16 A2582612	Tectum	Heterogeneous Beige Fibrous Bound	50%	Cellulose	30% 10% 10%	Binder Silicates Paint	None Detected
DJ122917-17 A2582613	Tectum	Heterogeneous Beige Fibrous Bound	50%	Cellulose	30% 10% 10%	Binder Silicates Paint	None Detected
DJ122917-18 A2582614	Tectum	Heterogeneous Beige Fibrous Bound	50%	Cellulose	30% 10% 10%	Binder Silicates Paint	None Detected
DJ122917-19 Layer 1 A2582615	Plaster Skim Coat	Heterogeneous White,Blue Non-fibrous Bound			40% 55% 5%	Binder Silicates Paint	None Detected
Layer 2 A2582615	Plaster Base Coat	Heterogeneous Gray Non-fibrous Bound			35% 65%	Binder Silicates	None Detected
DJ122917-20 Layer 1 A2582616	Plaster Skim Coat	Heterogeneous White,Blue Non-fibrous Bound			40% 55% 5%	Binder Silicates Paint	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
Layer 2 A2582616	Plaster Base Coat	Heterogeneous		35% Binder	None Detected
		Gray		65% Silicates	
		Non-fibrous			
		Bound			
DJ122917-21 Layer 1 A2582617	Plaster Skim Coat	Heterogeneous		40% Binder	None Detected
		White		55% Silicates	
		Non-fibrous		5% Paint	
		Bound			
Layer 2 A2582617	Plaster Base Coat	Heterogeneous		35% Binder	None Detected
		Gray		65% Silicates	
		Non-fibrous			
		Bound			
DJ122917-22 Layer 1 A2582618	Plaster Skim Coat	Heterogeneous		40% Binder	None Detected
		White		55% Silicates	
		Non-fibrous		5% Paint	
		Bound			
Layer 2 A2582618	Plaster Base Coat	Heterogeneous		35% Binder	None Detected
		Gray		65% Silicates	
		Non-fibrous			
		Bound			
DJ122917-23 Layer 1 A2582619	Plaster Skim Coat	Heterogeneous		40% Binder	None Detected
		White		55% Silicates	
		Non-fibrous		5% Paint	
		Bound			
Layer 2 A2582619	Plaster Base Coat	Heterogeneous		35% Binder	None Detected
		Gray		65% Silicates	
		Non-fibrous			
		Bound			



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
DJ122917-24 A2582620	Floor Tile	Heterogeneous Gray Non-fibrous Bound		100% Vinyl	None Detected
DJ122917-25 A2582621	Floor Tile	Heterogeneous Gray Non-fibrous Bound		100% Vinyl	None Detected
DJ122917-26 A2582622	Floor Tile	Heterogeneous Gray Non-fibrous Bound		100% Vinyl	None Detected
DJ122917-27 A2582623	Mastic	Heterogeneous Black Non-fibrous Bound		97% Mastic	3% Chrysotile
DJ122917-28 A2582624	Mastic	Heterogeneous Black Non-fibrous Bound		97% Mastic	3% Chrysotile
DJ122917-29 A2582625	Mastic	Heterogeneous Black Non-fibrous Bound		97% Mastic	3% Chrysotile
DJ122917-30 A2582626	Floor Tile	Heterogeneous Beige Non-fibrous Bound		100% Vinyl	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ122917-31 A2582627	Floor Tile	Heterogeneous Beige Non-fibrous Bound			100%	Vinyl	None Detected
DJ122917-32 A2582628	Floor Tile	Heterogeneous Beige Non-fibrous Bound			100%	Vinyl	None Detected
DJ122917-33 A2582629	Mastic	Heterogeneous Black Non-fibrous Bound			97%	Mastic	3% Chrysotile
DJ122917-34 A2582630	Mastic	Heterogeneous Black Non-fibrous Bound			97%	Mastic	3% Chrysotile
DJ122917-35 A2582631	Mastic	Heterogeneous Black Non-fibrous Bound			97%	Mastic	3% Chrysotile
DJ122917-36 A2582632	Ceiling Tile	Heterogeneous White,Gray Fibrous Bound	60% 10%	Cellulose Fiberglass	10% 15% 5%	Binder Perlite Paint	None Detected
DJ122917-37 A2582633	Ceiling Tile	Heterogeneous White,Gray Fibrous Bound	60% 10%	Cellulose Fiberglass	10% 15% 5%	Binder Perlite Paint	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ122917-38 A2582634	Ceiling Tile	Heterogeneous	60%	Cellulose	10%	Binder	None Detected
		White, Gray	10%	Fiberglass	15%	Perlite	
		Fibrous			5%	Paint	
		Bound					
DJ122917-39 A2582635	Drywall	Heterogeneous	10%	Cellulose	90%	Gypsum	None Detected
		White					
		Fibrous					
		Bound					
DJ122917-40 A2582636	Drywall	Heterogeneous	10%	Cellulose	90%	Gypsum	None Detected
		White					
		Fibrous					
		Bound					
DJ122917-41 A2582637	Drywall	Heterogeneous	10%	Cellulose	90%	Gypsum	None Detected
		White					
		Fibrous					
		Bound					
DJ122917-42 A2582638	Joint Compound	Heterogeneous	10%	Talc	80%	Calc Carb	None Detected
		White, Beige			5%	Silicates	
		Non-fibrous			5%	Paint	
		Bound					
DJ122917-43 A2582639	Joint Compound	Heterogeneous	10%	Talc	80%	Calc Carb	None Detected
		White, Beige			5%	Silicates	
		Non-fibrous			5%	Paint	
		Bound					
DJ122917-44 A2582640	Joint Compound	Heterogeneous	10%	Talc	80%	Calc Carb	None Detected
		White, Beige			5%	Silicates	
		Non-fibrous			5%	Paint	
		Bound					



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS		ASBESTOS %
			Fibrous	Non-Fibrous	
DJ122917-45 A2582641	Carpet Adhesive & Mastic	Heterogeneous Yellow,Black Non-fibrous Bound		100% Mastic	<1% Chrysotile
Lab Notes: Unable to separate mastics.					
DJ122917-46 A2582642	Carpet Adhesive & Mastic	Heterogeneous Yellow,Black Non-fibrous Bound		98% Mastic	2% Chrysotile
Lab Notes: Unable to separate mastics.					
DJ122917-47 A2582643	Carpet Adhesive & Mastic	Heterogeneous Yellow,Black Non-fibrous Bound		98% Mastic	2% Chrysotile
Lab Notes: Unable to separate mastics.					
DJ122917-48 A2582644	Floor Tile	Heterogeneous White,Brown Non-fibrous Bound		97% Mastic	3% Chrysotile
DJ122917-49 A2582645	Floor Tile	Heterogeneous White,Brown Non-fibrous Bound		97% Mastic	3% Chrysotile
DJ122917-50 A2582646	Floor Tile	Heterogeneous White,Brown Non-fibrous Bound		97% Mastic	3% Chrysotile
DJ122917-51 A2582647	Mastic	Heterogeneous Black Non-fibrous Bound		95% Mastic	5% Chrysotile



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ122917-52 A2582648	Mastic	Heterogeneous Black Non-fibrous Bound			95%	Mastic	5% Chrysotile
DJ122917-53 A2582649	Mastic	Heterogeneous Black Non-fibrous Bound			95%	Mastic	5% Chrysotile
DJ122917-54 A2582650	Pipe Joint Insulation	Heterogeneous Gray Fibrous Bound	10% 15%	Cellulose Fiberglass	35% 25%	Binder Silicates	15% Chrysotile
DJ122917-55 A2582651	Pipe Joint Insulation	Heterogeneous Gray Fibrous Bound	5% 10%	Cellulose Fiberglass	35% 15%	Binder Silicates	35% Chrysotile
DJ122917-56 A2582652	Pipe Joint Insulation	Heterogeneous Gray Fibrous Bound	10% 15%	Cellulose Fiberglass	35% 25%	Binder Silicates	15% Chrysotile
DJ122917-57 A2582653	Boiler Breeching Insulation	Heterogeneous Gray Fibrous Bound	5%	Fiberglass	55% 18%	Binder Silicates	20% Chrysotile 2% Amosite
DJ122917-58 A2582654	Boiler Breeching Insulation	Heterogeneous Gray Fibrous Bound	5%	Fiberglass	55% 18%	Binder Silicates	20% Chrysotile 2% Amosite



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ122917-59 A2582655	Boiler Breeching Insulation	Heterogeneous Gray Fibrous Bound	5%	Fiberglass	55%	Binder 18% Silicates	20% Chrysotile 2% Amosite
DJ122917-60 A2582656	Adhesive	Heterogeneous Black Fibrous Loosely Bound	50%	Fiberglass	40%	Tar 10% Silicates	None Detected
DJ122917-61 A2582657	Adhesive	Heterogeneous Black Fibrous Loosely Bound	50%	Fiberglass	40%	Tar 10% Silicates	None Detected
DJ122917-62 A2582658	Adhesive	Heterogeneous Black Fibrous Bound	50%	Fiberglass	40%	Tar 10% Silicates	None Detected
DJ122917-63 A2582659	Canvas Covering	Heterogeneous Off-white Fibrous Bound	90%	Cellulose	10%	Binder	None Detected
DJ122917-64 A2582660	Canvas Covering	Heterogeneous Off-white Fibrous Bound	90%	Cellulose	10%	Binder	None Detected
DJ122917-65 A2582661	Canvas Covering	Heterogeneous Off-white Fibrous Bound	90%	Cellulose	10%	Binder	None Detected



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ122917-66 A2582662	Vibration Collar	Heterogeneous Black Fibrous Loosely Bound	95%	Cellulose	5%	Binder	None Detected
DJ122917-67 A2582663	Vibration Collar	Heterogeneous Black Fibrous Loosely Bound	95%	Cellulose	5%	Binder	None Detected
DJ122917-68 A2582664	Vibration Collar	Heterogeneous Black Fibrous Loosely Bound	95%	Cellulose	5%	Binder	None Detected
DJ122917-69 A2582665	Sink Undercoating	Heterogeneous White Fibrous Bound	25% 10%	Cellulose Talc	60% 5%	Binder Silicates	None Detected
DJ122917-70 A2582666	Glazing Sealant	Heterogeneous Gray Non-fibrous Bound			88% 10%	Binder Silicates	2% Chrysotile
DJ122917-71 A2582667	Glazing Sealant	Heterogeneous Gray Non-fibrous Bound			88% 10%	Binder Silicates	2% Chrysotile
DJ122917-72 A2582668	Glazing Sealant	Heterogeneous Gray Non-fibrous Bound			88% 10%	Binder Silicates	2% Chrysotile



ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A18-0023

Date Received: 01-02-18

Date Analyzed: 01-03-18

Date Reported: 01-04-18

Project: Rockford- New Milford School Eastwing; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
DJ122917-73 A2582669	Adhesive	Homogeneous Gray Non-fibrous Bound	5%	Talc	95%	Mastic	None Detected
DJ122917-74 A2582670	Adhesive	Homogeneous Gray Non-fibrous Bound	5%	Talc	95%	Mastic	None Detected
DJ122917-75 A2582671	Adhesive	Homogeneous Gray Non-fibrous Bound	5%	Talc	95%	Mastic	None Detected
DJ122917-76 A2582672	Caulking	Homogeneous Gray Non-fibrous Bound			100%	Caulk	None Detected
DJ122917-77 A2582673	Caulking	Homogeneous Gray Non-fibrous Bound			100%	Caulk	None Detected
DJ122917-78 A2582674	Caulking	Homogeneous Gray Non-fibrous Bound			100%	Caulk	None Detected



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

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

REPORTING LIMIT: <1% by visual estimation


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

REGULATORY LIMIT: >1% by weight

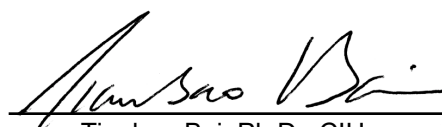
Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission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

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

ANALYST:


Taylor B. Metcalf

APPROVED BY:


Tianbao Bai, Ph.D., CIH
Laboratory Director





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

78 A18-0023
ASBESTOS A258 2597
CHAIN OF CUSTODY A2582674

LAB USE ONLY:

CEI Lab Code:

CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Daniel Sureau
Company: Curran Conner & Assoc, Ltd.	Email / Tel: DSureau@ccahtd.com
Address: 600 W. Van Buren St. Suite 500 Chicago, Illinois 60607	Project Name: Rockford-New Milford School Eastwing
Email: DSureau@ccahtd.com	Project ID#: A139670107
Tel: 312 907 0642 Fax: 312 782 5145	PO #:
STATE SAMPLES COLLECTED IN: Illinois	

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM BULK	CARB 435	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ISO 10312	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR	ASTM 6281-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05 (2010)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09 (2014)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS / SPECIAL INSTRUCTIONS: Please Email results to DSureau@ccahtd.com Evan Christian EChristian@ccahtd.com		<input checked="" type="checkbox"/> Accept Samples <input type="checkbox"/> Reject Samples	
Relinquished By: 	Date/Time 12/29/2017	Received By: FedEx Shipping	Date/Time 12/29/17 AA 12:18 8:50

Samples will be disposed of 30 days after analysis

Page 1 of 1



ASBESTOS ACM BULK SAMPLING FORM

CARNOW CONIBEAR

A8-0023

COMPANY CONTACT INFORMATION

Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Jumeau / Evan Christensen
Client Name: Rockford Public Schools	Email/Contact: D.Jumeau@ccaltltd.com
Project Location: New Milford School East Wing	Project No.: A139670107

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST	
			PLM	TEM
DJ122917-01	9"x9" Floor Tile	East Wing Classrooms + Hallways	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-02	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-03	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-04	Black Mastic below	East Wing classrooms	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-05	9"x9" Floor Tile	Hallways	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-06	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-07	1'x1' Ceiling Tile - white w/	East Wing - Hallways	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-08	Small fissures	Room soffits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-09	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-10	Dark Brown Adhesive for	East Wing - Hallways +	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-11	1'x1' Ceiling Tile -	Room soffits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-12	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-13	Drywall Substrate for	East Wing - Hallway +	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-14	1'x1' Ceiling Tile	soffits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-15	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-16	Tectum Type Ceiling Deck	East Wing - throughout	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-17	panels	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-18	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-19	Hardcoat Plaster	East Wing Classroom	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-20	↓	soffits +	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-21	↓	Various Ceilings	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-22	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-23	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-24	12x12 Floor Tile - Gray Mottled	East Wing - Nurses/Bathroom	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-25	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-26	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-27	Black Mastic below	East Wing - Nurses/Bathroom	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-28	12x12 Gray Mottled	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-29	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>



ASBESTOS

#8-0023

ACM BULK SAMPLING FORM

CARNOW CONIBEAR

COMPANY CONTACT INFORMATION

Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Jureau/Evan Christman
Client Name: Rockford Public Schools	Email/Contact: DJureau@ccalt.com
Project Location: New Milford School East Wing	Project No.: A139670107

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST	
			PLM	TEM
D122917-30	12x12 Floor Tile - Beige Mottled	East Wing - Principal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-31	↓	↓ Main Office	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-32	↓	↓ Storages	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-33	Black Mastic below	East Wing - Principal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-34	12x12 Beige Mottled	↓ Main Office	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-35	↓	↓ Storages	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-36	2'x4' Suspended Ceiling Tile	East Wing - Nurses	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-37	white/Fissured	↓ Main Office	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-38	↓	↓ Principal Area	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-39	Drywall	East Wing - Nurse/Main	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-40	↓	↓ Office	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-41	↓	↓ Principal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-42	Drywall Joint Compound	East Wing - Nurse/Main	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-43	↓	↓ Office	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-44	↓	↓ Principal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-45	Carpet Adhesive/Black Mastic	East Wing - Main Office	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-46	↓	↓ Principal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-47	↓	↓ Room	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-48	12"x12" Floor Tile - White w/	East Wing - Hallways	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-49	↓ Brown Streaks	↓ Surrounding Gym	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-50	↓	↓ Gym	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-51	Black Mastic below	East Wing - Hallways	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-52	12"x12" White Floor Tile w/	↓ Surrounding Gym	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-53	↓ Brown Streaks	↓ Gym	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-54	Pipe Joint Insulation	East Wing Mechanical Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-55	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-56	↓	↓ Plumbing Insulation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-57	Boiler Breeching Insulation	East Wing - Boiler Room	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-58	↓	↓ Room	<input checked="" type="checkbox"/>	<input type="checkbox"/>
-59	↓	↓	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Project No.: A139670107

Page 3 of 3

January 31, 2018

Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CLIENT PROJECT: New Milford; A139670107
CEI LAB CODE: A18-1642

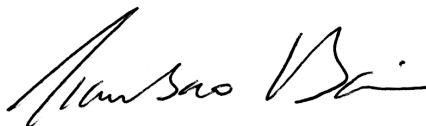
Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on January 31, 2018. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

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

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,



Tianbao Bai, Ph.D., CIH
Laboratory Director

ASBESTOS ANALYTICAL REPORT

By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: New Milford; A139670107

LAB CODE: A18-1642

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

REPORT DATE: 01/31/18

TOTAL SAMPLES ANALYZED: 24

SAMPLES >1% ASBESTOS: 3

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: New Milford; A139670107

LAB CODE: A18-1642

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
EC012618-01		A2611332	White	Exterior Cement Plaster Soffit	None Detected
EC012618-02		A2611333	White	Exterior Cement Plaster Soffit	None Detected
EC012618-03		A2611334	White	Exterior Cement Plaster Soffit	None Detected
EC012618-04	Layer 1	A2611335	Black	Roof Field	None Detected
	Layer 2	A2611335	Yellow	Insulation	None Detected
EC012618-05	Layer 1	A2611336	Black	Roof Field	None Detected
	Layer 2	A2611336	Yellow	Insulation	None Detected
EC012618-06	Layer 1	A2611337	Black	Roof Field	None Detected
	Layer 2	A2611337	Yellow	Insulation	None Detected
EC012618-07		A2611338	Black	Roof Flashing	None Detected
EC012618-08		A2611339	Black	Roof Flashing	None Detected
EC012618-09		A2611340	Black	Roof Flashing	None Detected
EC012618-10		A2611341	Black,Gray	Parapet Sealant	Chrysotile 10%
EC012618-11		A2611342	Black,Gray	Parapet Sealant	Chrysotile 10%
EC012618-12		A2611343	Black,Gray	Parapet Sealant	Chrysotile 10%
EC012618-13	Layer 1	A2611344	Black	Roof Field	None Detected
	Layer 2	A2611344	Yellow	Insulation	None Detected
EC012618-14	Layer 1	A2611345	Black	Roof Field	None Detected
	Layer 2	A2611345	Yellow	Insulation	None Detected
EC012618-15	Layer 1	A2611346	Black	Roof Field	None Detected
	Layer 2	A2611346	Yellow	Insulation	None Detected
EC012618-16		A2611347	Black	Roof Flashing	None Detected
EC012618-17		A2611348	Black	Roof Flashing	None Detected
EC012618-18		A2611349	Black	Roof Flashing	None Detected
EC012618-19	Layer 1	A2611350	Black	Roof Field	None Detected
	Layer 2	A2611350	Yellow	Insulation	None Detected
EC012618-20	Layer 1	A2611351	Black	Roof Field	None Detected
	Layer 2	A2611351	Yellow	Insulation	None Detected
EC012618-21	Layer 1	A2611352	Black	Roof Field	None Detected
	Layer 2	A2611352	Yellow	Insulation	None Detected
EC012618-22		A2611353	Black	Roof Flashing	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: New Milford; A139670107

LAB CODE: A18-1642

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

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
EC012618-23		A2611354	Black	Roof Flashing	None Detected
EC012618-24		A2611355	Black	Roof Flashing	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

Lab Code: A18-1642
Date Received: 01-31-18
Date Analyzed: 01-31-18
Date Reported: 01-31-18

Project: New Milford; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC012618-01 A2611332	Exterior Cement Plaster Soffit	Heterogeneous			20% Paint		None Detected
		White			60% Silicates		
		Non-fibrous			20% Binder		
		Bound					
EC012618-02 A2611333	Exterior Cement Plaster Soffit	Heterogeneous			20% Paint		None Detected
		White			60% Silicates		
		Non-fibrous			20% Binder		
		Bound					
EC012618-03 A2611334	Exterior Cement Plaster Soffit	Heterogeneous			20% Paint		None Detected
		White			60% Silicates		
		Non-fibrous			20% Binder		
		Bound					
EC012618-04 Layer 1 A2611335	Roof Field	Homogeneous			100% Rubber		None Detected
		Black					
		Non-fibrous					
		Bound					
Layer 2 A2611335	Insulation	Heterogeneous	20%	Fiberglass	80%	Foam	None Detected
		Yellow					
		Fibrous					
		Bound					
EC012618-05 Layer 1 A2611336	Roof Field	Homogeneous			100% Rubber		None Detected
		Black					
		Non-fibrous					
		Bound					
Layer 2 A2611336	Insulation	Heterogeneous	20%	Fiberglass	80%	Foam	None Detected
		Yellow					
		Fibrous					
		Bound					

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

Lab Code: A18-1642
Date Received: 01-31-18
Date Analyzed: 01-31-18
Date Reported: 01-31-18

Project: New Milford; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC012618-06 Layer 1 A2611337	Roof Field	Homogeneous			100%	Rubber	None Detected
		Black					
		Non-fibrous					
		Bound					
Layer 2 A2611337	Insulation	Heterogeneous	20%	Fiberglass	80%	Foam	None Detected
		Yellow					
		Fibrous					
		Bound					
EC012618-07 A2611338	Roof Flashing	Heterogeneous			95%	Rubber	None Detected
		Black			5%	Mastic	
		Non-fibrous					
		Bound					
EC012618-08 A2611339	Roof Flashing	Heterogeneous			95%	Rubber	None Detected
		Black			5%	Mastic	
		Non-fibrous					
		Bound					
EC012618-09 A2611340	Roof Flashing	Heterogeneous			95%	Rubber	None Detected
		Black			5%	Mastic	
		Non-fibrous					
		Bound					
EC012618-10 A2611341	Parapet Sealant	Heterogeneous			80%	Tar	10% Chrysotile
		Black,Gray			10%	Binder	
		Fibrous					
		Bound					
EC012618-11 A2611342	Parapet Sealant	Heterogeneous			80%	Tar	10% Chrysotile
		Black,Gray			10%	Binder	
		Fibrous					
		Bound					

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

Lab Code: A18-1642
Date Received: 01-31-18
Date Analyzed: 01-31-18
Date Reported: 01-31-18

Project: New Milford; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC012618-12 A2611343	Parapet Sealant	Heterogeneous			80%	Tar	10% Chrysotile
		Black,Gray			10%	Binder	
		Fibrous					
		Bound					
EC012618-13 A2611344	Roof Field Layer 1	Homogeneous			100%	Rubber	None Detected
		Black					
		Non-fibrous					
		Bound					
Layer 2 A2611344	Insulation	Heterogeneous	20%	Fiberglass	80%	Foam	None Detected
		Yellow					
		Fibrous					
		Bound					
EC012618-14 A2611345	Roof Field Layer 1	Homogeneous			100%	Rubber	None Detected
		Black					
		Non-fibrous					
		Bound					
Layer 2 A2611345	Insulation	Heterogeneous	20%	Fiberglass	80%	Foam	None Detected
		Yellow					
		Fibrous					
		Bound					
EC012618-15 A2611346	Roof Field Layer 1	Homogeneous			100%	Rubber	None Detected
		Black					
		Non-fibrous					
		Bound					
Layer 2 A2611346	Insulation	Heterogeneous	20%	Fiberglass	80%	Foam	None Detected
		Yellow					
		Fibrous					
		Bound					

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

Lab Code: A18-1642
Date Received: 01-31-18
Date Analyzed: 01-31-18
Date Reported: 01-31-18

Project: New Milford; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC012618-16 A2611347	Roof Flashing	Heterogeneous			95%	Rubber	None Detected
		Black			5%	Mastic	
		Non-fibrous					
		Bound					
EC012618-17 A2611348	Roof Flashing	Heterogeneous			95%	Rubber	None Detected
		Black			5%	Mastic	
		Non-fibrous					
		Bound					
EC012618-18 A2611349	Roof Flashing	Heterogeneous			95%	Rubber	None Detected
		Black			5%	Mastic	
		Non-fibrous					
		Bound					
EC012618-19 Layer 1 A2611350	Roof Field	Homogeneous			100%	Rubber	None Detected
		Black					
		Non-fibrous					
		Bound					
Layer 2 A2611350	Insulation	Heterogeneous	20%	Fiberglass	80%	Foam	None Detected
		Yellow					
		Fibrous					
		Bound					
EC012618-20 Layer 1 A2611351	Roof Field	Homogeneous			100%	Rubber	None Detected
		Black					
		Non-fibrous					
		Bound					
Layer 2 A2611351	Insulation	Heterogeneous	20%	Fiberglass	80%	Foam	None Detected
		Yellow					
		Fibrous					
		Bound					

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

Lab Code: A18-1642

Date Received: 01-31-18

Date Analyzed: 01-31-18

Date Reported: 01-31-18

Project: New Milford; A139670107

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS				ASBESTOS %
			Fibrous		Non-Fibrous		
EC012618-21 Layer 1 A2611352	Roof Field	Homogeneous			100%	Rubber	None Detected
		Black					
		Non-fibrous					
		Bound					
Layer 2 A2611352	Insulation	Heterogeneous	20%	Fiberglass	80%	Foam	None Detected
		Yellow					
		Fibrous					
		Bound					
EC012618-22 A2611353	Roof Flashing	Heterogeneous			95%	Rubber	None Detected
		Black			5%	Mastic	
		Non-fibrous					
		Bound					
EC012618-23 A2611354	Roof Flashing	Heterogeneous			95%	Rubber	None Detected
		Black			5%	Mastic	
		Non-fibrous					
		Bound					
EC012618-24 A2611355	Roof Flashing	Heterogeneous			95%	Rubber	None Detected
		Black			5%	Mastic	
		Non-fibrous					
		Bound					

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

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

REPORTING LIMIT: <1% by visual estimation


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

REGULATORY LIMIT: >1% by weight

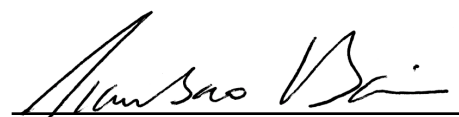
Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission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

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

ANALYST:


 Adriana de la Nuez

APPROVED BY:


 Tianbao Bai, Ph.D., CIH
 Laboratory Director



CHAIN OF CUSTODY

730 SE Maynard Rd, Cary, NC 27511
Tel: 919-481-1413 Fax: 919-481-1442

LAB USE ONLY:

CEI Lab Code:

CEI Lab I.D. Range:

COMPANY INFORMATION

CEI CLIENT #: 27427

Company: CARNOW, CONIBEAR & ASSOC.

Address: 600 W. Van Buren St., Ste 500

Chicago, IL 60607

Email:

Tel: 312-762-2920

Fax: 312.782.5145

PROJECT INFORMATION

Job Contact: Evan Christian

Email / Tel: 312-296-1287

Project Name: *New Milford*

Project ID# *A139670107*

PO #:

STATE SAMPLES COLLECTED IN: IL

GENERAL INSTRUCTIONS

POSITIVE STOP ANALYSIS

☐

PLM DUE DATE: / /

ANALYZE NOB'S BY TEM

☐

TEM DUE DATE: / /

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (400)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM POINT COUNT (1000)	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLM GRAV w POINT COUNT	EPA 600	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PCM AIR	NIOSH 7400	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR AHERA	EPA AHERA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM AIR NIOSH	NIOSH 7402	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM BULK	CHATFIELD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST WIPE	ASTM D6480-05	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM DUST MICROVAC	ASTM D5755-09	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM SOIL	ASTM D7521-13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TEM VERMICULITE	CINCINNATI METHOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS: Please email results to echristian@caltld.com



Accept Samples



Reject Samples

Relinquished By:

Date/Time

Received By:

Date/Time

Evan Christian

1/30/18

AD

9:30 / 1-31-18

Samples will be disposed of 30 days after analysis

Aug. 16, 2012



**CARNOW
CONIBEAR**

COMPANY CONTACT INFORMATION

Company: Carnow Conibear	Job Contact: <i>Evan Christian</i>
Project Name: <i>New Milford</i>	
Project ID #: <i>A139670107</i>	Tel: <i>312-246-1287</i>

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST	
<i>EC012618-01</i>	<i>Exterior Cement Plaster</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>02</i>	<i>↓ Soffit</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>03</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>04</i>	<i>Roof Field Original Bldg</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>05</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>06</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>07</i>	<i>Roof Flashing</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>08</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>09</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>10</i>	<i>Parapet Sealant</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>11</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>12</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>13</i>	<i>Roof Field East Roof</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>14</i>	<i>↓ 15' Bldg</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>15</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>16</i>	<i>Roof Flashing</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>17</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>18</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>19</i>	<i>Roof Field North Bldg</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>20</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>21</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>22</i>	<i>Roof Flashing</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>23</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
<i>24</i>	<i>↓</i>		PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>
			PLM <input type="checkbox"/>	TEM <input type="checkbox"/>

ATTACHMENT B

Evan Christian

Illinois Licensed Building Inspector, Project Manager, Air
Sampling Professional and Management Planner



ID NUMBER	ISSUED	EXPIRES
100 - 19466	3/1/2017	05/15/2018

EVAN I CHRISTIAN
3024 N RACINE AVE, APT 2
CHICAGO, IL 60657

Environmental Health



ENDORSEMENTS

TC EXPIRES

INSPECTOR	11/30/2017
MANAGEMENT PLANNER	1/5/2018
PROJECT MANAGER	12/6/2017
AIR SAMPLING PROFESSIONAL	

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois
Department of Public Health
This license is valid only when accompanied by a valid
training course certificate.

2017



OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Evan Christian

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 11/28/2017

Exam Date: 11/28/2017

Expiration Date: 11/28/2018

Certificate Number: BIR1711284928

Kathy DeSalvo, Director

Daniel Juneau

Illinois Licensed Asbestos Inspector, Management Planner,
Project Manager, and Air Sampling Professional



ASBESTOS PROFESSIONAL LICENSE

ID NUMBER
100 - 03613

ISSUED
3/16/2017

EXPIRES
05/15/2018

DANIEL J JUNEAU
1408 OAKWOOD AVENUE
DES PLAINES, IL 60016

Environmental Health



ENDORSEMENTS

TC EXPIRES

INSPECTOR

11/30/2017

MANAGEMENT PLANNER

1/5/2018

PROJECT MANAGER

12/6/2017

AIR SAMPLING PROFESSIONAL

Alteration of this license shall result in legal action

This license issued under authority of the State of Illinois
Department of Public Health

This license is valid only when accompanied by a valid
training course certificate.

2017



OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Daniel Juneau

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 11/28/2017

Exam Date: 11/28/2017

Expiration Date: 11/28/2018

Certificate Number: BIR1711284934

A handwritten signature in black ink, reading 'Kathy DeSalvo', is written over a horizontal line.

Kathy DeSalvo, Director