

SCITUATE SCHOOL DEPARTMENT
197 Danielson Pike, North Scituate, RI 02857

INFORMATION REGARDING THE BIDDING PROCESS

A. **GENERAL**

The Scituate School Department is conducting competitive sealed bidding for the **Asbestos abatement North Scituate School** are due in the Office of the Superintendent of Schools no later than 2:00 PM on **June 22, 2012**. Bids should be addressed to the attention of the Superintendent of Schools and **MUST** have the closing date and the subject of the bid marked on the envelope. **ALL BIDS MUST BE SEALED**. This bid package includes Information Regarding the Bidding Process, the Bid Specifications, and a Bid Form.

B. **BID CONDITIONS**

1. No bids will be acceptable unless properly made out on the attached forms and signed by the bidder. Facsimile transmitted bids will not be accepted. All bids must be legible, either typewritten or in ink.
2. The Scituate School Department reserves the right to reject any and all bids or any part thereof or to accept such part or parts deemed for the best interest of the Scituate School Department.
3. The quality of the equipment, goods, materials, etc., shall be as per bidder's description and/or sample, and must be to the satisfaction of the Scituate School Department. The Superintendent shall have full power and authority to reject any and all items furnished that are not in strict conformity with the requirements of the specifications.
4. Each item bid must be CLEARLY identified by manufacturer's name, number, and bidder's catalog number. Catalogs or catalog sheets describing items bid must be sent with the bid. Any deviation from the specifications must be noted in writing and attached as part of bid proposal. The bidder shall indicate the item or part with the deviation and indicate how the bid will deviate from the specifications.
5. Equals may be bid unless specifically excluded by the words "ONLY" or "NO SUBSTITUTES." However, in all cases where equals are bid the following must be done:
 - a) The equal must be clearly identified by manufacturer's name and number or by catalog number.
 - b) Catalogs describing the number listed must be submitted with the bid.

- c) The use of a catalog number is to be for our information and reference use only. If the SUBSTITUTE or ALTERNATE ITEM IS NOT A TRUE EQUAL, the deviations MUST BE CLEARLY STATED. The use of just a catalog number alone is NOT sufficient to show that the item bid IS NOT a true equal. If a bidder fails to follow this requirement and delivers an unacceptable substitute, the item will be returned. Delivery will then be requested at the bid price. Failure to provide the specified item may place your company in jeopardy with future bids.
 - d) Equal products will be considered provided a no-charge sample is sent in advance when requested for inspection, testing, and evaluation. Failure to submit the requested samples at a time on or before the opening of the bid will result in your bid being rejected for the item in question.
6. Quantity: We reserve the right to increase or decrease quantities based upon available funding.
 7. All shipments must be made within the time specified on the front sheet of the bid. As a result, all bids must be based on the knowledge of availability. No payment will be made until the order is completely delivered in accordance with the bid specifications.
 8. Hazardous Substances: All hazardous substances must conform to all Federal and State regulations pertaining to labeling of hazardous substances, etc. A fully completed Material Safety Data Sheet (MSDS) OSHA Form 20 must be sent for ALL products including those show ingredients are included on the Rhode Island Designated Substances List and in the latest edition of the Hazardous Materials Handbook of the National Fire Protection Association before an order is considered to be complete.
 9. All equipment is to meet the specifications, if any, set by the Consumer Product Safety Commission under the "Consumer Products Safety Act" (Public Law 92-575) of October 27, 1972, and all amendments thereto. Seller agrees to comply with the provisions of the occupational Safety and Health Act of 1970 and the standards and regulations issued thereunder. Seller certifies that all items furnished and all work performed hereunder will comply with said standards and regulations. Seller further agrees to indemnify and hold harmless Buyer for any loss, damages, fine, penalty, or any expense whatsoever as a result of Seller's failure to comply with the Act and any such standards or regulations issued thereunder.
 10. The vendor's failure to deliver on time and failure to completely fill all orders will place your company in breach of the herein contract and may result in the termination thereof. In such a case, Scituate School Department reserves the right to any legal and/or equitable remedies available.

11. Awards will be evaluated responsive and responsible bid price. Some of the factors considered in determining the bid award will be price, adherence to bid specifications, ability to properly service, quality of product, references, prior experience and prior performance.
12. Any and all obligations of the Scituate School Department with regard to herein contract shall not be the responsibility of any official or employee of said school system. Specifically, said officials or employees shall not be required to personally guarantee any of the obligations or covenants with regard to a contract of the Scituate School Department.
13. Qualifications of Bidders: The Scituate School Department may make such investigations, as it deems necessary to determine the ability of the bidder to meet the obligations of the bid. The bidder shall furnish the Scituate School Department with all such information and data for the purpose as may be requested.
14. Award of Bids: The Scituate School Department reserves the right to award in whole or in part.

C. PRICING

1. The bid shall contain firm prices and shall not be withdrawn for the number of days indicated on the front page of the bid subsequent to the opening thereof.
2. Each unit price should be quoted as a net cost to the Scituate School Department. A total of list prices less a discount off of the total shall not be considered. Any discount adjustment shall be made by the bidder and the net cost shall be clearly indicated and listed separately for each item on the bid.
3. All shipments will be FOB Destination – Freight Included. “Destination” is specified on the first sheet of this bid. No extra charge above the bid price is to be made for freight, express, cartage, postage, boxes or other containers. If the bidder states that a minimum order must be placed to obtain delivery at the bid price without freight charge, the bid will not be considered if the award is less than the minimum set by the bidder. The only exception to the condition is if the award would be in the best interest of the Scituate Public Schools.
4. Unit prices must be quoted for the unit specified. The Scituate School Department will not convert your incorrect unit price to the specified unit. Items priced in this matter will not be considered. Bidders will not substitute their own format. All unit prices must be extended to the total price.
5. Please quote only one price for each unit specified, except as noted in #6 as follows.

6. If a bidder groups certain items together for better pricing, the bidder must also bid individual prices for each of the items in the group. Such individual pricing is not to be contingent upon the acceptance of other items for the award of one or more of the individually priced items.
7. Please double check the price you submit for accuracy as all bids submitted are final. Negligence on the part of the bidder in preparing the bid confers no rights for the withdrawal of the bid after it has been opened.
8. Rhode Island Sales Tax: The Scituate School Department is exempt from the payment of the Rhode Island Sales Tax under the 1956 General Laws of the State of Rhode Island, 44-18-30, Paragraph I, as amended.
9. Federal Excise Taxes: The Scituate School Department is exempt from the payment of any excise tax or federal transportation taxes. The price bid must be exclusive of taxes and will be so construed.
10. PREVALING WAGE APPLIES: Certified payroll must be submitted.
11. Insurance: All bidders are required to carry a minimum of Two million dollars liability insurance and provide proof of such at time of Bid.
12. Interpretations: No interpretation on the meaning of the specifications will be made to any bidder orally. Every request for an interpretation must be made to the Superintendent of the Scituate School Department or his administrative designee, and to be given consideration must be received at least seven (7) days prior to the date fixed for the opening of the bids. Facsimile requests for interpretations will be honored.
13. This agreement may be declared void and terminated by the Scituate School Department if any provision(s) set forth here and above is not complied with by the vendor or contractor.

BID FORM

Item: _____

Due Date/Time of Bid: _____

Bid Price: _____

We, the undersigned, propose and agree to sell to the Scituate School Department any or all of the items at the prices indicated subject to the instructions and specifications included with this bid.

Signature of Company Officer

Date

Name and Title of Company Officer (please print)

Company Name and Address

Telephone Number (please include area code and 800 number and FAX number if applicable)

This is not a contract, but merely an invitation to bid. It shall become a contract upon acceptance of this offer by a signed purchase order or letter from Scituate School Department. Said contract shall be governed by the within terms and conditions.

SCITUATE SCHOOL DEPARTMENT
MAINTENANCE DEPARTMENT
94 TRIMTOWN ROAD
NORTH SCITUATE RHODE ISLAND
02857

PHONE (401) 647-4123 extension 2121
Fax (401) 647-4104

BID SPECIFICATION

ASBESTOS ABATEMENT PROJECT

LOCATION: North Scituate Elementary School Library Media Center

1. Remove and dispose all Asbestos containing material (Floor Tile and mastic) as called for in the attached abatement plans.
2. Provide Pricing for Areas A and B Separately

Insurance Requirements

The contractor shall provide, secure, and maintain in force for the duration of this project which shall include an asbestos materials handling and hazardous materials insurance coverage. The asbestos abatement contractor shall submit a copy (with notice of contract award) a certificate of insurance for all coverage's required within these specifications and shall list the Scituate School Department, and Vortex, Inc. as additionally named insured. At no time shall the abatement contractor cancel or let lapse the insurance coverage as stated within the specification.

The contractor shall carry appropriate asbestos liability insurance of \$1,000,000 per occurrence, \$2,000,000 aggregate [occurrence based with NO sunset clauses]. Claims-made asbestos insurance will not be accepted.

DAVIS-BACON ACT

The asbestos abatement contractor is required to pay each employee the proper prevailing wage labor rate as established through the Rhode Island Department of Labor. The asbestos contractor is responsible for the identification and payment of the correct hourly wage rate and benefit wage rate (if applicable) to employees assigned to this project working a second/third shift and/or on weekends. The asbestos industry has two (2) labor wage rates that may apply to this project and the rates are based on the types of ACBM abated. The bidding asbestos contractor shall include applicable documentation.

LIQUIDATION DAMAGES

There are Liquidation Damages of \$1,000.00 per day to be paid by the Asbestos Abatement Contractor to the Town of Scituate, for each day abatement is to be performed after the scheduled completion day of Wednesday, July 13, 2012.

ACCELERATED ABATEMENT WORK SCHEDULE

This "accelerated" asbestos abatement project MUST begin after Friday, June 29, 2012 and abatement completed by Wednesday, July 13, 2012.

Please contact STEVE GORMLEY, Director of Buildings and Grounds, 401-647-4123 ext. 2121, if you have any questions and to view the site.

All bids must include statement of terms and delivery charges.

**ASBESTOS ABATEMENT
PLAN
&
SPECIFICATIONS**

**LIBRARY & MEDIA CENTER
AT THE NORTH SCITUATE ELEMENTARY SCHOOL**

JULY 2012

Prepared for:

Stephen Gormley
Facilities Manager
Scituate Public Schools

Project designed by:

John Carbone

Vortex, Inc.
3670 West Shore Road Unit #1
Warwick, R.I. 02886

Submitted:

April 23, 2012

SCOPE OF WORK - ASBESTOS ABATEMENT

The Scituate Public Schools is requesting the services of a Rhode Island licensed Asbestos Abatement Contractor to perform asbestos abatement within the Library and Media Center which contains asbestos containing 9" square floor tile/mastic and attached carpeting [glued] for a total of 2,800 s.f. of floor area. Refer to attached Asbestos Abatement Plan for project design and details of the work areas and procedures. /

General Information

Prospective bidders are required to visit the project site to confirm all conditions affecting the work area, including but not limited to; access to utilities, work site conditions, accessibility to work area, containment boundaries and obstacles, and accessibility of building occupants adjacent to the work area. The asbestos abatement contractor shall also familiarize themselves with the character and quantity of all surface and subsurface materials or obstacles to be encountered within or adjacent to the work area. Any failure by the abatement contractor to acquaint themselves with available information will not relieve them from the responsibility of successfully performing the work.

This project is to be performed in compliance with applicable federal, state and local asbestos regulations. By submitting a bid, the bidder agrees and warrants that where the scope of work requires a given result to be produced, the requirements are adequate and can be produced. No claim for any extra or any alleged damage due to delay will be allowed because of impossibilities in the production of the results specified.

Plans, surveys, measurements, dimensions, calculations, estimates, and statements as to the conditions under which the work is to be performed are believed to be correct, but the abatement contractor must examine site(s) for themselves as no allowance will be made for any errors or inaccuracies that may be found therein. Vortex Inc, the Scituate School Department, or their representatives do not guarantee that they are other than approximately correct.

If the building owner(s) representatives or any subcontractor of said owner permits the asbestos abatement contractor to use any of the owner's equipment, tools, and/or facilities, such use shall be considered gratuitous and the contractor (by submitting a bid) shall release the owner from any responsibility from claims of personal injuries, including death, arising out of the use of such equipment, tools, and/or facilities irrespective of the condition thereof, or any negligence on the part of the owner in permitting the use of equipment, tools, and/or facilities.

It is the sole responsibility of the asbestos contractor to obtain any and all licensing/patent licensing from the state and/or private agencies/firms. The building owner assume no responsibility for the failure of the abatement contractor to fulfill these requirements. Copies of those licensing/patent licensing certificates shall accompany the asbestos abatement contractor's bid documents.

The asbestos abatement contractor should maintain documentation, including photographs as desired, to establish the conditions of the work-site area(s) prior to the start of asbestos abatement activities. If the abatement contractor does not document the work-site area(s) conditions, than all areas and structures located within the building are assumed to be in good and undamaged condition. In the event that areas and/or structures in the work area become damage due to the asbestos abatement activities, the abatement contractor will be financially liable for the repair and/or replacement (as decided by the building owner) of those damaged items at no cost to the building owner, Vortex, Inc., or the individual on-site project monitor.

Discrepancies - Should an abatement contractor find inaccuracies within the state asbestos abatement plan(s), drawings, documents, and/or these specifications, they must request clarification from the Scituate Public Schools or Vortex, Inc. If formal clarification is necessary, then a written clarification document will be produced and mailed and/or facsimile to all perspective bidders.

WORK AREA PREPARATION

1) Posting of Signs:

ASBESTOS Warning signs to advise the public of the location(s) within the building where any asbestos abatement activity is in progress shall be posted at all building entrances and at least one other conspicuous place per floor (if applicable). These signs shall be of the same size and dimensions as the Danger signs required as stated below.

ASBESTOS Danger signs in accordance with OSHA 29 CFR 1926.1101 shall be displayed at all approaches to any location where airborne fiber levels can be expected to exceed the Indoor Non-Occupational Air Exposure Standard as established within the R.I. Rules and Regulations for Asbestos Control. ASBESTOS Barrier Tape shall be installed around exterior perimeter areas where exterior abatement work is being performed.

Decontamination chamber postings shall consist of a fire escape diagram of the containment area as well as the building exits, procedures that employees must follow in the event of a fire, accident, or medical emergency, and the telephone numbers of 1. the building owner representative, 2. local fire, rescue, and police, 3. building owner's contact person, environmental consulting firm, 4. project monitor, and 5. analytical laboratory.

2) Pre-Cleaning:

The asbestos abatement contractor shall clean all surfaces within the designated containment area of all dust and debris. Wet-wiping and HEPA vacuuming of all surfaces and items within designated containment area shall be completed prior to the construction of floor or wall polyethylene sheeting. All movable items within the containment area shall be removed from the work area by staff members of the Scituate School Department. All non-movable items within the work area shall be covered with one (1) layer of 6-mil polyethylene sheeting.

3) Isolation Barriers:

Critical barriers shall be constructed by the asbestos abatement contractor to isolate contaminated areas from un-contaminated areas. These critical barriers shall be constructed of two (2) layers of 6-mil polyethylene sheeting and shall be secured in place with duct tape. These critical barriers consist of all openings or penetrations including, but not limited to, windows, doorways, elevator openings, corridor openings, drains, ducts, grills, grates, diffusers, and skylights.

4) HVAC Lock-out/Tag-out:

All HVAC equipment in or passing through the abatement area shall be locked out/tagged out. All intake and exhaust openings, as well as any seams in the system components shall be covered with 2 layers of 6-mil polyethylene sheeting and tape.

5) Negative Pressure Ventilation

Negative pressure ventilation units with HEPA filtration, in sufficient number to provide one (1) work-place air change every fifteen minutes. These units shall operate continuously from the time of barrier construction through the time of acceptable clearance air sampling has been completed. These units shall exhaust filtered air to the outside of the building at all times (unless a waiver has been approved by the RIDOH).

6) Utility Requirements:

Electrical - The asbestos abatement contractor shall be responsible for supplying the work-place with electrical power. The electricity can be obtained from other areas/phases (not associated with the abatement area) of the building/structure. Ground-fault interrupter (GFI) systems must be used by the contractor at all times. Circuits energizing the work-place area shall be lock-out/tag-out for the duration of the removal project. It is the responsibility of the asbestos abatement contractor to coordinate these lock-down procedures with the Scituate Public Schools.

7) Worker Decontamination:

A worker decontamination enclosure system shall be erected adjacent to the work area, consisting of a clean room, shower room, and equipment room, each separated from each other and from the work area by airlocks. It will also be accessible through doorways protected with two (2) overlapping polyethylene sheets, and shall be provided and operational in accordance with OSHA 29 CFR 1926.1101) and the RIDOH Rules and Regulations.

8) Respirator Protection:

All asbestos abatement workers on-site shall, at a minimum, utilize half-faced, HEPA filtered, negative pressure respirators and disposable clothing during the preparation procedures of the containment area(s). The use of powered air purifying respirators (or a high protection factor respirator, as mandated within the contractor's respiratory protection program) and protective clothing is required during gross removal and until

final air clearance has been established. This requirement may be amended pending acceptable OSHA personal sampling results.

The asbestos abatement contractor must collect the required personal (OSHA Compliance) air samples during each shift and must make the results available (posted at the job site) to the asbestos abatement worker, project monitor, state and/or federal agency representative(s) within twenty-four hours of sample collection.

ASBESTOS ABATEMENT ACTIVITIES AND PROCEDURES **(where applicable)**

General Requirements

- 1) Pre-clean asbestos abatement work area in accordance with R.I. Rules and Regulations for Asbestos Control per applicable regulation.
- 2) At no time shall protective polyethylene sheeting be allowed to dislodge from the attached location or be removed from the containment area, until the appropriate final air clearance sampling results have been obtained. All containment procedures and engineering controls shall remain in place at all times until final visual and/or clearance air sampling data has been obtained and the project monitor has given a tear-down order.
- 3) The asbestos abatement contractor shall be responsible for the collection and analysis of personal air sampling of his work force. Personal air monitoring will be performed on the first initial workday on at least 25% of the work force. Periodic personal air monitoring will be performed on various workers in accordance with the abatement contractor's respirator protection program.
- 4) The asbestos abatement contractor shall be responsible for the abatement workers to comply with all safety and health regulations that pertain to asbestos abatement activities as described within this specification or any unforeseen duties that have not been mentioned within this specification.
- 5) The asbestos abatement contractor shall be responsible for the wetting of the asbestos-containing material during removal procedures. A continuous spray of amended water to the asbestos-containing material shall be applied. Saturate the material to a wet condition to the substrate without causing excessive dripping. Maintain a high humidity within the containment area to reduce fiber release from the removed material.
- 6) The asbestos abatement workers shall not remove sections of asbestos-containing materials in sections greater than 20 square feet or linear feet at a time. All removed material should be immediately placed within the appropriate container following removal. At no time should removed material be allowed to dry.
- 7) If at any time during the asbestos abatement procedure(s) the on-site project monitor considers the abatement contractor's representatives to be providing an unsafe work environment to his employees, jeopardizing the environment outside the work area, or

endangering the safety and/or health of any individual or occupant within the building or work site, the project monitor may issue a verbal (followed by a written statement) **STOP WORK ORDER**. This order will remain in affect until the asbestos abatement contractor demonstrates compliance with the appropriate regulation and/or specific requirements as stated in the stop work order.

8) All polyethylene barriers within the work-place and associated with the asbestos abatement shall be inspected twice daily by the asbestos abatement contractor. The inspections will be conducted at the beginning of the work day and at the end of the work day. The abatement contractor shall inspect the polyethylene for openings to the non-contaminated areas of the building. If he/she finds an opening, it will be repaired immediately and brought to the attention of the on-site project monitor. These set inspections do not relieve the abatement contractor from maintaining the polyethylene containment barrier(s) integrity.

9) After the on-site project monitor has issued a clearance visual inspection, the asbestos abatement contractor shall apply a coating of a liquid encapsulate to all abated areas and surfaces within the containment. This encapsulant shall be compatible with the subsequent surfaces to which it is applied and shall not be water soluble.

10) If at any time during the abatement procedures, asbestos-containing materials is discovered behind the polyethylene barrier(s), the asbestos abatement contractor shall stop work immediately and clean-up the asbestos-containing material utilizing wet-wipe and HEPA vacuum techniques. The abatement contractor shall find and repair the polyethylene sheeting. After a thorough visual inspection of the area and polyethylene sheeting by the on-site project monitor, asbestos abatement work can continue.

SPECIFIC REQUIREMENTS

Refer to attached asbestos abatement plan for specific asbestos abatement work practice requirements.

MASTIC ABATEMENT – “SHOT BLAST” or SCARIFIER METHOD

The ACM mastic material shall be removed in its entirety utilizing the “shot blast” method to include all perimeter and field areas within the designated work/abatement areas per attached asbestos plan designed by Vortex Inc. The contractor is required to hire a RI licensed electrician to connect and disconnect the shot blast unit from the existing electrical service. Any damage to the existing stripped floor shall be patched and/or repaired at the expense of the asbestos contractor.

NOTIFICATIONS

The selected asbestos abatement contractor shall notify the proper authorities (RIDOH, EPA and local Fire Dept. etc.) on appropriate forms.

FAILURE OF VISUAL INSPECTIONS

If the asbestos abatement contractor fails the visual inspection criteria, they will be financially responsible for re-cleaning and cannot submit an invoice for additional costs incurred.

WORK DAY AND WORK HOURS

The asbestos contractor is required to perform asbestos abatement preparation and abatement operations during the most convenient times not to disturb the adjoining neighbors. The asbestos abatement contractor shall perform this work during the course of the normal work day (7 am – 3:30 pm), Monday thru Friday. The asbestos contractor may work on Saturdays at NO additional cost to the Town. To minimize problems, the selected asbestos contractor shall meet with the owner prior to the start of the project to discuss and schedule the entire asbestos/demolition portion of the project.

POST ABATEMENT ACTIVITIES

A) Compliance Monitoring

At a minimum, one (1) compliance air sample shall be collected by the on-site project monitor per day at each containment. These compliance air samples will be collected at various locations around the containment areas (i.e., decontamination chamber, clean room, critical barriers, negative pressure exhaust units, and/or free standing poly wall) or any location that the on-site project monitor deems necessary. These compliance air samples are to be collected to verify that the containment barriers, engineering controls, and work practices are in proper use and that fiber release from the containment is not occurring. If fiber concentrations are in excess of the non-occupational exposure level of 0.01 f/cc, the asbestos abatement contractor's work shall be stopped, and a visual inspection of the containment area barriers as well as work practices shall be inspected. The asbestos abatement contractor shall be responsible for the decontamination of the contaminated area. Refer to state asbestos abatement plan application for further information.

B) Visual Inspections

Visual inspections of the containment barriers shall be completed by the project monitor to spot check on the condition of the poly barriers, work practices utilized by the abatement contractor, proper use of engineering controls, required on-site asbestos abatement worker and site supervisor paper work, required project specific documentation, abatement process, and asbestos waste packaging. If at any time during these spot checks an inadequacy appears, the abatement contractor shall be required to correct or amend the problem and the project monitor shall be required to inform the building owner representative immediately.

Also, the on-site project monitor shall conduct final visual clearance inspection(s) of the asbestos abatement containment. These inspections consist of the visual observations of any debris within the containment work area. If, during the final clearance visual, the

project monitor observes debris within the containment, the asbestos abatement contractor shall be responsible for the clean-up of that debris. Final aggressive clearance air samples will not be collected until the work area passes the visual inspection.

C) Clearance Air Monitoring Criteria

The on-site project monitor must complete a visual inspection of the containment area after the fine cleaning has been completed by the asbestos abatement contractor. The inspection involves the identification of any visual asbestos-containing debris located on any surface or substrate within the containment area. If asbestos-containing material (or any debris) is observed, the asbestos abatement contractor shall be responsible for the clean-up of the debris. The on-site project monitor shall decide the cleanliness of the asbestos abatement area. After the containment passes the project monitor's visual inspection, the contractor will spray encapsulate all abated surfaces within the containment area.

ALL ASBESTOS WASTE (BAGS/DRUMS) MUST BE REMOVED FROM THE WORK AREA PRIOR TO VISUAL INSPECTION.

After the liquid encapsulant has completely dried, the on-site project monitor shall collect aggressive clearance air samples from within the containment area. Refer to attached RIDOH asbestos abatement plan for specific sampling quantities and methods.

If aggressive clearance air sampling results in fiber concentrations in excess of the R.I. Rules and Regulations clearance air sampling criteria, the project work area shall be wet-wiped, HEPA vacuumed, and/or encapsulated. A period of no less than twenty-four (24) hours shall elapse before the next set of clearance air samples can be collected. This sampling process will be repeated until fiber air concentrations are within regulatory limits. If clearance air sample results are not within allowable limits as set forth by the AHERA Regulations and the abatement plan, the asbestos abatement contractor shall be financially responsible for the cost of the additional air sampling analysis and project monitor's sampling time.

WASTE DISPOSAL PROCEDURES

Asbestos-containing material waste shall be packaged in impermeable containers such as polyethylene sheeting, bags and/or fiber or metal drums. These containers shall be labeled so that the labels have the appearance of or are constructed in accordance with USDOT 49 CFR 172, Subpart E and OSHA 29 CFR 1926.1101.

Each container, bag, drum, or wrapped component shall also be labeled or tagged with the name and license number of the asbestos abatement contractor generating the asbestos-containing material waste, as well as the asbestos abatement project number (as issued by the R.I.DOH) and location at which the waste was generated.

Temporary On-site Storage

Once containerized asbestos-containing material waste has been removed from the containment area, the containers shall be transported into an enclosed truck or dumpster. These vehicles shall be appropriately labeled in accordance with 29 CFR 1926.1101 and USDOT 49 CFR 173.1300 and locked to prevent unauthorized entrance to the vehicle.

Personnel transporting the asbestos-containing material waste shall be protected as required by the contractor's respiratory protection program and any appropriate regulations regarding the transportation of the waste to a temporary storage area. If any debris is observed either on the waste containers and/or on surfaces, the abatement contractor shall immediately clean-up the area utilizing wet-wipe techniques and HEPA vacuuming. The area shall be visually inspected for further contamination and evaluated for clearance air sampling.

Waste Deposition

Disposal must occur at an authorized site in accordance with regulatory requirements of NESHAP's, State, and Local agencies and guidelines. When transporting the asbestos-containing material waste to any disposal site, all state and federal DOT regulations must be followed.

Procedures that will be followed at the landfill will be dependent upon the federal (EPA), State, and Local regulations. The asbestos abatement contractor shall be responsible for the adherence to these regulations/requirements.

Confirmation of Asbestos Disposal

For all asbestos-containing waste material transported off the abatement project site, the asbestos abatement contractor shall;

- 1) Maintain waste shipment records, using the most current revisions of the Agency's form (ASB-23) to provide the following information:
 - a) The name, address, and telephone number of the asbestos abatement contractor.
 - b) The approximate quantity in cubic yards.
 - c) The name and telephone number of the disposal site operation.
 - d) The name and physical site location of the disposal site.
 - e) The date of transportation.
 - f) The name, address, and telephone number of the transporter(s).
 - g) A certification that the contents of this consignment are fully and adequately described by proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in proper condition for transportation by highway in accordance with applicable international and governmental regulations.

2) Provide a properly completed copy of the ASB-23 form to the disposal site owners or operators at the same time as the asbestos-containing material is delivered to the waste disposal site.

3) Provide the building owner with the original (white) copy of the ASB-23 form signed by the owner or operator of the designated disposal site. A copy of this form shall also be transmitted to the R.I.DOH. The asbestos abatement project will not be considered complete and full payment for the asbestos abatement contractor's services will not be made unless all receipts are received and reviewed by Vortex Inc. and the Scituate Public School Department.

Work Completion Reports

Prior to Authorization of final payment to the Asbestos Contractor, the contractor shall submit the following documentation and reports to the building owner.

1) Report any deviations in work procedures or containment engineering controls which were encountered during the removal process other than those outlined within the original specifications. Also, the abatement contractor will report any remedial actions taken, equipment failure, problems encountered, and any job-site injuries.

2) Submit copies of all transport manifests, trip tickets, and disposal receipts for all asbestos waste materials removed from the work area during the abatement process.

3) Copies of all personnel information associated with the asbestos abatement project. (RI Asbestos License, training certificate, medical, fit test and CPR/First Aid training certificates)

4) Copies of all Daily Journals and Sign-In Sheets

Medical Monitoring Procedures and Requirements

Asbestos abatement workers are required by OSHA regulations to be included within a medical surveillance program. This medical program should be in accordance with OSHA 29 CFR 1926.1101. An asbestos abatement worker's medical should include the following;

1) An initial mandatory medical questionnaire.

2) A physical examination directed to the cardiovascular, pulmonary and gastrointestinal system.

3) Chest roentgenogram interpreted by a board-eligible radiologist.

4) Pulmonary function tests of FVC and FEV₁, administered and interpreted by a certified pulmonary specialist.

Employees shall be given an opportunity to be evaluated by a physician to determine their capability to work safely while breathing through the added resistance of a respirator. The certificates issued by the reputable medical agency shall be kept on site at all times during the abatement activities.

Training Requirements of Asbestos Workers & Supervisors

Licensed asbestos contractors shall not allow any asbestos abatement worker or asbestos abatement supervisor to participate in asbestos abatement activities or projects prior to receiving initial training as required by the R.I. Department of Health Rules and Regulations for Asbestos Control. The criteria for successful completion of a require training course must be include obtaining a passing score on the final course examination. All employees who are involved in this asbestos abatement project, shall be licensed to do so by the Rhode Island Department of Health.

APPLICABLE REGULATIONS, STANDARDS, AND GUIDELINES

General Requirements:

All work under this contract will be conducted in strict accordance with all applicable state, federal, and local regulations, standards and codes governing asbestos abatement activities and any other trade work done in conjuncture with the abatement. The most recent addition of any relevant regulation, standard, document, or code will be in effect. Where conflict among these specifications or requirements exist, the most stringent requirements shall be utilized at no extra cost to the building owner or Vortex, Inc. Copies of this specification as well as those documents listed below will be on the work-site during the entire abatement project.

- | | |
|---------------------------------|---|
| 1. 29 CFR 1910:1001 | The Construction Industry Standard (as Amended) |
| 2. 29 CFR 1910.134: | Respiratory Protection Standard |
| 3. 29 CFR 1910.145: | Accident Prevention Standard |
| 4. 29 CFR 1910.38: | Asbestos Abatement Projects |
| 5. 29 CFR 1910.22: | Surfaces |
| 6. 29 CFR 1910.28: | Scaffolding |
| 7. 29 CFR 1910.27: | Ladders |
| 8. 40 CFR 61 Subparts A, B, & M | National Emissions Standard for Hazardous Air Pollutants |
| 9. ANSI Z9.2-79 | Design and Operation of Local Exhaust Systems |
| 10. ANSI Z88.2-80 | Practices for Respiratory Protection |
| 11. 29 CFR 1910.1101 | "New" OSHA Asbestos Standard |
| 12. R 23-24.5-ASB | R.I. Rules and Regulations for Asbestos Control (most recent amendment) |
| 13. Fall Protection | |

RIDOH; Owner: Spare

VORTEX

ASBESTOS ABATEMENT PLAN 4/23/12

ACM Floor Tile and/ Mastic - Library & Media Center
N. Scituate Elementary School, N. Scituate, RI

**Rhode Island Department of Health
Notarized Certification of Asbestos Abatement Plan**

Facility: **N. SCITUATE ELEMENTARY SCHOOL** Amend/Plan: **NEW**
Address: **46 INSTITUTE LANE**
City/Town: **N. SCITUATE, RI** Zip Code: **02857**

Abatement plan written by: **JOHN CARBONE** Certification No: **177 PD/IS**

Summary of specific waivers/variances being requested: **WAIVER OF FLOOR
POLYETHYLENE IN VAT/MASTIC AREAS, WAIVER OF 2 - 4 MIL FOR WALLS-
REQUEST 1-6 MIL THICK POLYETHYLENE.**

Type of Asbestos Abatement:

<input checked="" type="checkbox"/> Removal Glovebag	<input type="checkbox"/> Enclosure Asphalt Roofing	<input type="checkbox"/> Encapsulation Demolition	<input type="checkbox"/> Other
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Is this plan being submitted in response to a Notice of Violation and/or Notice of Requirement to Submit an Asbestos Abatement Plan?

YES NO

If Yes, indicate Notice/Building Evaluation Number(s):

Contractor: **UNKNOWN** License #: LAC –
Estimated starting date: **JUNE 2012**

Pre-Abatement sampling information:

Bulk samples collected by: JOHN CARBONE	Certification #: AAC- 177IS
Bulk samples analyzed by: EMSL	Certification #: AAL- 075T3
Air samples analyzed by: V-LAB	Certification #: AAL- 087A1

Clearance air sampling information:

Air samples to be collected by: **VORTEX STAFF**
Air samples to be analyzed by: **EMSL** Certification #: AAL- **075T3**

CERTIFICATION

I certify that: this asbestos abatement plan is prepared and submitted under the provisions of Section 23-24.5-6 of the RI Asbestos Control Act and Parts A and C of the RI Rules and Regulations for Asbestos Control; all abatement/management activities performed in conjunction with this plan must be in compliance with the specifications prescribed in this plan (when approved) and the most current revision of all applicable federal and state regulations; and the asbestos abatement/management activities described in this plan must be performed by a RI licensed asbestos abatement contractor.

Certified by: _____ Title: _____
(Signature of building owner or agent)

_____ Date: ____/____/____
(typed/printed name of Certifier)

Subscribed and sworn before me this _____ day of _____, 201__

_____ My Commission expires: _____

AFFIX NOTARY SEAL HERE

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Division of Occupational and Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1) Building Owner's name:

SCITUATE SCHOOL DEPT.

3) Building Owner's Mailing Address and
Telephone Number:

2) Application prepared by:

**JOHN CARBONE
RI Cert. #: 177PD
(401) 738-7710**

Street: **P.O. BOX 188**
City, State: **N. SCITUATE, RI**
Zip code: **02857**
Tel. #: **401-647-4120**

4) Person to be contacted regarding
this application:

Name: **STEVEN GORMLEY**
Tel. #: **401-647-4120**

5) Location where abatement work will be performed:

Name: **N. SCITUATE ELEMENTARY SCHOOL
LIBRARY & MEDIA CENTER**
Street: **46 INSTITUTE LANE**
City, State: **N. SCITUATE, RI** Zip code: **02857**

6) is this application being submitted in response to a "Notice of Requirement to Submit and Asbestos Abatement Plan?"

YES NO

If yes, what is the due date for submittal of Asbestos Plan?

Evaluation Number on the notice:

7) Contractor who will be performing abatement work (if selected):

Name: **UNKNOWN**

RI License #: **LAC - - 000**

8) Estimated starting date of abatement work: **JUNE 2012**

9) Estimated completion date of abatement work: **WITHIN 7 DAYS**

10) Type of Asbestos Abatement (Check all that apply)

<input checked="" type="checkbox"/> Removal	Enclosure	Asphalt Roofing
Encapsulation	Demolition	Operations & Maintenance only
Other	Glovebag Removal	

11) Type of Building: School Building
 Privately owned building
 Publicly owned building
 Residence
 Other (specify)

12) Building Access: Public Access (>25% of building area)
 Limited Public Access (<25% of building area)
 No Public Access

13) Bulk Sample collection and analysis

A) Person collecting bulk samples

Name: **JOHN CARBONE**

RI Certification #: **177IS**

B) Sampling Methodology:

EPA AHERA Sampling Requirements [40 CFR 763.86]

EPA's Asbestos containing Material in Buildings: A Guidance Document (EPA-450/2-78-014) or Guidance for Controlling Asbestos Containing Materials – 1985 Edition (EPA-560-5-85-024).

Other (specify below)

C) Laboratory performing the analysis of the bulk samples.

Name: **EMSL**

RI Cert. #: **075T3**

D) Analytical Methodology

EPA Interim Method for the determination of Asbestos in Bulk Insulation samples [PLM Method only]

Other (specify below)

14) Pre-abatement Air Sampling Collection and Analysis:

A) Person collecting pre-abatement air samples:

Name: **JOHN CARBONE**

Affiliation: **VORTEX INC.**

B) Laboratory performing analysis of pre-abatement air samples:

Name: **V-LAB**

RI Cert. No: AAL- **087A1**

C) Methodology used in the collection and analysis of pre-abatement samples:

- NIOSH Method 7400 [Most Current Revision]
- OSHA 29 CFR 1926.1101 – Appendix A & B
- Other (specify below)

15) A) Indicate how the asbestos containing material (ACM) will be removed from the abatement site. If a hauler or broker will be used to transport the ACM to the disposal site, they must be identified.

REMOVED IN A CLOSED DUMPSTER, NO HAULER SELECTED YET.

B) Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known)

UNKNOWN

16) Person designated as compliance monitor for abatement work. (Not required)

Name: **N/A**

Affiliation:

17) In-process & clearance air sampling **REFER TO ATTACHMENT #1**

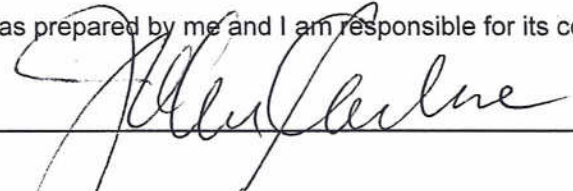
- a) Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.
 - b) Describe on an attachment, the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (<0.01 f/cc) is exceeded outside the work area during the abatement project.
 - c) Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.
 - d) Describe on an attachment, the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (<0.01 f/cc) is exceeded during final clearance testing.
-

18) A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item #1 from each attached ASB-16A.

LIBRARY & ADJOINING MEDIA CENTER [AREAS A & B]

19) I certify that this plan was prepared by me and I am responsible for its content:

Signature: _____



Date: _____

4, 23, 12

Name: **JOHN CARBONE**

Affiliation: **VORTEX INC.**

20) Asbestos Abatement Plan Application Fee:

Operations and Maintenance only	\$75
Up to one (1) NESHAP Units	\$75
Between one (1) and ten (10) NESHAP Units	\$300
X Between ten (10) and fifty (50) NESHAP Units	\$600
Over fifty (50) NESHAP Units	\$900
Amendment Fee	\$150
Waiver of Application Fee	

Agency Use only

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
Department of Health
Division of Occupational and Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN
Supplemental Information: Area Description and Proposed remedy

BUILDING LOCATION: **FIRST FLOOR LEVEL**

Instructions: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(1) Area Location/Identification (Room Name, Evaluation number, etc.)

ADJOINING AREAS "A" & "B"

(2) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (NOTE: All laboratory reports must include the name of the building(s) and the location(s) of the sample(s).

REFER TO ATTACHMENT #2

(3) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. The location of the decontamination chamber must also be so indicated on the appropriate drawing(s).

REFER TO ATTACHED DRAWING A1

(4) Proposed remedies:

A) Attach a description of the Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

REFER TO ATTACHMENT #3

4) Proposed remedies [continued]

B) Will any portion of this area be abated by use of B.8 Work Procedures?

YES NO

If yes, indicate below which ACM in this area will be abated by use of the following B.8 Work Procedures:

- B.8.2 & B.8.3 (REMOVAL)
 - B.8.2 & B.8.4 (ENCAPSULATION)
 - B.8.2 & B.8.5 (ENCLOSURE)
 - B.8.6 (DEMOLITION)
 - B.8.7 (GLOVEBAG)
 - B.8.8 (ASPHALT ROOFING)
-

C) Are you proposing any waivers to the above selected B.8 procedures for any of the abatement activities in this area.

YES NO

If yes, attach a detailed description of the waivers requested and/or the alternative procedures you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

REFER TO ATTACHMENT #4

D) Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

YES NO

If yes, attach a detailed description of the alternate procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

E) Will any RACM remain in this area after abatement?

YES NO Beyond scope of inspection

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

AGENCY USE ONLY

ATTACHMENT # 1

In Progress and Clearance Air Sampling

A minimum of (1) compliance air sample will be collected outside of each containment area(s) each day for the duration of the asbestos removal project. The compliance air samples shall be collected at random locations adjacent to the work area. If there is a deviation in proper procedures on the part of the asbestos abatement contractor during set-up, removal, or final clean-up, the asbestos abatement workers shall be stopped, the problem rectified, and the building owner shall be notified immediately of the situation. These deviations include inadequate on-site paperwork, deviations in outlined work procedures, or if compliance air sampling outside the work area indicate fiber concentrations in excess of the non-occupational exposure limit 0.01 f/cc. If fiber concentrations are in excess of 0.01 f/cc, the asbestos abatement contractor and the on-site project monitor shall determine the source as well as the extent of the contamination, and the asbestos abatement contractor shall be responsible for extending the existing containment area to include the contaminated area and initiating the clean-up.

Clearance Air Sampling

A visual clearance inspection of each asbestos abatement work area shall be performed prior to clearance air sampling. The visual inspection will include an inspection of all vertical and horizontal surfaces within the containment area as well as all polyethylene sheeting. The on-site project monitor shall determine cleanliness of the work area. After the containment has passed the on-site project monitors visual clearance inspection, the asbestos abatement contractor shall encapsulate all surfaces within the containment area with an approved liquid encapsulant. After the liquid encapsulant has dried, the on-site project monitor shall collect the following number of clearance air samples.

LIBRARY & ADJOINING MEDIA CENTER [AREAS A & B]- A total of 13 TEM air samples shall be collected/analyzed as part of this one (1) containment area that includes 5 TEM's inside, 5 TEM's outside and 3 blanks per AHERA protocol.

Clearance air monitoring results in fiber concentrations in excess of the non-occupational exposure limit of less than the average of 70 st/mm³ for the 5 TEM samples, the asbestos abatement contractor shall be responsible for the re-cleaning (i.e., wet-wiping, HEPA vacuuming...etc.) and re-encapsulating of the work area. A period of no less than 24 hours shall elapse prior to the collection of the next set of clearance air samples. This process shall be repeated until the air sample fiber concentrations are less than the average of 70 st/mm³ for the 5 TEM samples collected inside the containment area.

ATTACHMENT #2

DESCRIPTION OF ACM

LIBRARY & ADJOINING MEDIA CENTER [AREAS A & B]

This project involves the abatement of asbestos containing 9" square floor tile and mastic [TOTAL OF 2,800 S.F.] within both the Library (Area A) and the Media Center (Area B). The ACM mastic material shall be removed in its entirety utilizing the "shot blast" method to include all perimeter and field areas within the designated work/abatement containment area. THE EXISTING CARPET COVERING THE VAT/mastic (GLUED) SHALL FIRST BE REMOVED WITHIN THE CONTAINMENT AREA AND DISPOSED AS NON-ACM WASTE.

ATTACHMENT #3

Interim and On-Going Operations and Maintenance Program

The building occupants are aware of the **VAT/mastic** within these areas. These people have been or will be educated and advised not to disturb the asbestos-containing materials due to the potential health effects if asbestos fibers become airborne.

Any outside contractor will sign a document stating that he has been made aware of the presence and location of the asbestos-containing materials within these areas. Also, the building owner representative(s) are responsible for presenting information to the building occupants of any asbestos abatement activities being conducted. This will be accomplished by posting memo's and/or posting of caution/warning signs at the all entrances to the building during such activities.

Accidental Disturbance of Asbestos-Containing Materials

At the time of the inspection, they were all aware of the potential presence of ACBM within the areas of concern. The information below outlines the procedures that will be followed in an event of an accidental asbestos fiber release within the building.

If an asbestos-containing material becomes disturbed within the criteria of a minor fiber release (less than 3 linear feet or 3 square feet of ACBM), a trained "R.I. Competent Person" may perform the clean-up, removal, encapsulation, or enclosure abatement activities utilizing spot repair/removal techniques. During these spot abatement techniques, access to the area shall be restricted to only those trained individuals, signs shall be posted, and HVAC (if applicable) shall be shut down and locked out. If a major fiber release occurs (greater than 3 linear feet or 3 square feet of ACBM), the clean-up, removal, encapsulation, or enclosure abatement activities must be completed by a R.I. Department of Health (R.I. DOH) certified asbestos abatement contractor. Regardless of the amount of asbestos to be abated, the effected area must be isolated and entry to the area restricted to only those trained/certified personnel.

Employee Training

Any employee of the company, firm, agency, or other organization as well as any outside contractor employed by the building owner who, as a consequence of their work activities, disturbs asbestos-containing building materials must be properly trained and certified by the R.I. Department of Health as a "R.I. Competent Person" in accordance with the R.I. Rules and Regulations for Asbestos Control.

On-Going O & M

The existing Management Planner Booklet shall be updated to include the removal of the VAT/mastic within these areas.

ATTACHMENT #4

WAIVER & ALTERNATE PROCEDURES

VAT/mastic abatement areas - we are requesting a *waiver* of floor polyethylene [B.8.2(c)] due to removal of the VAT and request an *alternate procedure* [B.8.2(d)] for one (1) layer of 6 mil thick polyethylene for wall preparation instead of the standard 2 layers of 4 mil polyethylene. All other B.8.2 and B.8.3 Work Practices shall apply.



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (800) 220-3675 / (856) 786-5974
<http://www.emsl.com> cinnaslab@EMSL.com

EMSL Order: 041209232
 CustomerID: VORT50
 CustomerPO:
 ProjectID:

Attn: **John Carbone** Phone: (800) 867-8399
Vortex, Inc. Fax: (401) 738-7869
PO Box 6060 Received: 04/11/12 9:00 AM
Warwick, RI 02887-6060 Analysis Date: 4/11/2012
 Collected:

Project: 12-121

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
1 041209232-0001	- FloorTile under carpet - Beige - Media II gray	Tan Non-Fibrous Heterogeneous		90% Non-fibrous (other)	10% Chrysotile
2 041209232-0002	- Mastic (Black only)	Black Non-Fibrous Heterogeneous		98% Non-fibrous (other)	2% Anthophyllite
Recommend TEM, possible contamination from an underlying layer.					
3 1209232-0003	- FT				Stop Positive (Not Analyzed)
4 041209232-0004	- Mastic (Black color only)				Stop Positive (Not Analyzed)
5 041209232-0005	- FT				Stop Positive (Not Analyzed)
6 041209232-0006	- Mastic(Black color only)				Stop Positive (Not Analyzed)

RI Cert: AAL-075T3

Analyst(s)
 Christina Walker (2)

Stephen Siegel
 Stephen Siegel, CIH, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. None Detected = <1%
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

Initial report from 04/11/2012 23:18:37



3670 West Shore Road - Suite #1 • Warwick, RI 02886 401-738-7710 Fax: 401-738-7869

Date Received: 4/16/2012

Project # 2012-04-007

Date Analyzed: 4/16/2012

The following shows fiber concentrations for submitted air samples:

VORTEX INC.
PO BOX 6060
WARWICK, RI 02887

**Air Sample results are within the acceptable
Indoor Non-occupational Air Standards of <0.01 f/cc**

Samples Submitted by: JOHN CARBONE

Presented below are the results of air sample(s) analyzed for fiber concentration utilizing PCM Analytical methods.
Phase Contrast Microscopy, NIOSH Manual of Analytical Methods, U.S. Department of Health and Human Services
3rd, as revised May 15, 1989. Method 7400, Counting Rule A. RI DOH certification # AAL-087A1
If there are any questions regarding this report, please contact our V Lab representative.

LOCATION: **PRE-ABATEMENT AIR SAMPLES**
SCITUATE PUBLIC SCHOOLS
SCITUATE, RI

Analyst
John Carbone

Sample Number	AREA	V Lab SAMPLE #	REPORTED VOLUME (L)	FIBER COUNT	FIELD COUNT	FIBER DENSITY FIBER/MM^2	Q.L. F/CC	F/CC
PA-1	HOPE ELEMENTARY SCHOOL <u>BOILER ROOM</u>	164017	1210	8.5	100	10.625	0.004	0.003
PA-2	NORTH SCITUATE ELEMENTARY SCHOOL <u>LIBRARY</u>	164018	1230	12	100	15	0.004	0.005