

ASBESTOS MANAGEMENT PLAN

FOR

AMHERST-PELHAM PUBLIC SCHOOLS

FORT RIVER SCHOOL

Prepared By:



ATC Group Services LLC
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Management Planner:

A handwritten signature in black ink, appearing to read 'Edward Kolodziej'. The signature is written in a cursive style and is positioned above a horizontal line.

Edward Kolodziej
License #AP073070

Date: March 5, 2018

Table of Contents

<u>Description</u>	<u>Section Number</u>
Introduction.....	1
➤ Types and Uses	
➤ Friable vs. Nonfriable ACBM	
➤ Asbestos Health Risks	
➤ AHERA Background	
Management Plan Objectives	2
LEA and Designated Person’s Responsibilities.....	3
➤ LEA’s Responsibility	
➤ Designated Person Responsibilities	
Asbestos Management Responsibilities	
Asbestos Recordkeeping Responsibilities	
Initial Inspection	4
➤ Identification of ACBM	
➤ Physical Assessment	
AHERA Reinspection and Recommended Response Actions	5
Periodic Surveillance	6
Annual Notification Letter	7
Notification to Short-Term Workers and Contractors	8
Education and Training	9
Custodians and Maintenance Personnel	
Construction and Repair Contractors	
Asbestos Operations and Maintenance Plan	10
➤ Introduction	
▪ Custodial Activities Special Precautions for Asbestos-Containing Ceiling Tiles	
▪ Stripping of Asbestos-containing Floor Tiles	
▪ Burnishing and Dry Buffing of Asbestos-Containing Floor Tile	
▪ Initial Cleaning	
▪ Warning Labels	
▪ Prohibited Activities	

Table of Contents

Table of Contents (continued)

<u>Description</u>	<u>Section Number</u>
Asbestos Emergency Response Actions	11
➤ General	
➤ Minor Fiber Release Episode (<3 SF or 3 LF)	
➤ Major Fiber Release Episode (>3 SF or 3 LF)	
➤ Emergency Call-In Numbers	
▪ School Contacts	
▪ Abatement Contractor	
▪ Environmental Consultant	
Evaluation of Resources	12
Appendix A	
Designated Person Statement	
Appendix B	
Custodial Training Records	
Appendix C	
Abatement Action Form	
Appendix D	
Management Planner & Inspector Certification	
Appendix E	
ACM Warning Sign	
Appendix F	
Minor Fiber Release Form	
Appendix G	
Cleaning Record Form	
Appendix H	
Resource Evaluation Cost Table	

1.0 INTRODUCTION

1.01. TYPES AND USES OF ASBESTOS

Asbestos is a naturally occurring fibrous mineral. It differs from other minerals in its crystal development. The crystal formation of asbestos is in the form of long thin fibers. Three of the most common types are chrysotile, amosite, and crocidolite. The three least common types of asbestos are tremolite, actinolite and anthophyllite. Unlike most minerals, asbestos breaks up into fine, light fibers invisible to the naked eye.

Asbestos became a popular commercial product to manufacturers and builders in the early 1900's to the 1970's. Asbestos is durable, fire retardant, resists corrosion, and insulates well. It is estimated that 3,000 different types of commercial products contain some amount of asbestos. The use of asbestos ranges from paper products and brake linings to floor tiles and insulation. Some uses of asbestos are as follows:

Acoustical Plaster	Electrical Panel Partitions
Asphalt Floor Tile	Breaching Insulation
Blown-in Insulation	Roofing Felt
Ceiling Tiles and Lay-in Panels	Chalkboards
Cement Pipes	Elevator Brake Shoes
Cement Siding	Boiler Insulation
Cement Wallboard	HVAC Duct Insulation
Construction Mastics (floor tile, carpet, ceiling tile, etc.)	Heating and Electrical Ducts
Decorative Plaster	Electrical Cloth
Elevator Equipment Panels	Spackling Compounds
Fire Blankets	Joint Compounds
Fire Curtains	Vinyl Wall Coverings
Fireproofing Materials	Base Flashing
Flooring Backing	Pipe Insulation (corrugated air-cell, block, etc.)
High Temperature Gaskets	Caulking/Putties
Laboratory Gloves	Wallboard
Laboratory Hoods/Table Tops	Adhesives
Packing Materials (for wall/floor penetrations)	Fire Doors
Spray-Applied Insulation	Roofing Shingles
Taping Compounds (thermal)	Thermal Paper Products
Textured Paints/Coatings	Electric Wiring Insulation
Vinyl Floor Tile	Ductwork Flexible Fabric Connections

1.02 FRIABLE VS. NONFRIABLE ACBM

Intact and undisturbed asbestos-containing material (ACM) does not pose a health risk. Asbestos becomes a problem when due to damage, disturbance, or deterioration over time, the material releases fibers into the air.

Friable ACBM will release fibers into the air more readily than nonfriable ACBM. Therefore, the AHERA Rule differentiates between friable and nonfriable ACBM. The regulations define friable ACBM as material that may be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friable ACBM also includes previously nonfriable material when it becomes damaged to the extent that when dry it may be crumbled, pulverized, or reduced to powder by hand pressure. ***Undamaged non-friable ACBM should be treated as friable if any action performed on the material will make them friable.***

1.03 ASBESTOS HEALTH RISKS

Exposure to asbestos may result in asbestosis (a disease characterized by lung scarring, which reduces the lungs' ability to function), lung cancer, mesothelioma (always-fatal cancer arising in the chest or abdominal cavity), and other diseases. Asbestos-related diseases are often dose-response related (the greater the exposure to airborne fibers, the greater the risk of developing an illness) and have a latency period (typically 15 to 30 years).

Risks associated with low-level, non-occupational exposure (e.g., a building occupant who is not actually disturbing the asbestos) are not well established. The National Institute for Occupational Safety and Health (NIOSH) has determined, however, that there is no established safe level of exposure.

Asbestos pose little risk if it is well maintained. EPA only requires asbestos removal to prevent significant public exposure to airborne asbestos fibers during building demolition or renovation activities.

1.04 AHERA (Asbestos Hazard Emergency Response Act) Background

AHERA was enacted in 1986. The regulation requires LEAs (Local Education Agency) to identify the location of asbestos-containing materials, to develop Management Plans to manage properly these materials, and to take appropriate actions to control the release of asbestos fibers in their buildings. In addition to the original inspection, the regulation requires that LEAs conduct both 6-month periodic and 3-year annual re-inspections to reassess the condition of the asbestos-containing materials. Other requirements include providing asbestos awareness training to school staff, designating and training an individual (the Designated Person) to ensure that the LEA's AHERA requirements, including an Operations and Maintenance Plan (O&M), are implemented properly for each school

2.0 MANAGEMENT PLAN OBJECTIVES

A. The **principal objective** of the asbestos management plan is to protect the health and safety of the building occupants in facilities that have asbestos-containing building materials (ACBM). The management plan provides this protection by establishing procedures and guidelines to:

1. Identify asbestos-containing building materials within the educational facility.
2. Maintain ACBM in good condition
3. Ensure proper cleanup of asbestos fibers if released
4. Prevent release of asbestos fibers
5. Monitor the condition of the identified ACBM
6. Inform parents, guardians, staff, vendors and contractors of the locations of ACBM
7. Ensure properly trained and licensed personnel conduct asbestos related activities utilizing proper procedures
8. Document and retain records of all asbestos related activities
9. Comply with government regulations concerning asbestos

3.0 LEA (Local Education Agency) and Designated Person's Responsibilities

3.01 LEA'S RESPONSIBILITY

Broadly stated, AHERA requires that each Local Education Agency (LEA) perform inspections to identify asbestos-containing materials in each of the public and private elementary and secondary schools under its authority; develop, implement and update asbestos management plans; take appropriate response actions; safely maintain asbestos-containing building materials (ACBM); and comply with AHERA's recordkeeping requirements.

The LEA's responsibility under the AHERA regulations is as follows:

- 1) Appoint a "designated person" to ensure proper implementation of the AHERA requirements.
- 2) Ensure that the designated person receives adequate training to perform duties assigned.

AHERA requires that the Designated Person be *adequately* trained to carry out his or her responsibilities. Due to the differing needs of school districts based on the size of the district and the amount and condition of the ACBM, AHERA does not list a specific training course or specific number of hours of training for the Designated Person. Further, AHERA does not require the Designated Person to be accredited. Specifically, the regulations note the training must include the following topics:

- health effects of asbestos;
- detection, identification and assessment of asbestos-containing building materials (ACBM);
- options for controlling asbestos-containing building materials; and
- asbestos management programs.
- relevant Federal and State regulations concerning asbestos, including AHERA and its implementing regulations and the regulations of the Occupational Safety and Health Administration, the U.S. Department of Transportation, and the U.S. Environmental Protection Agency

The LEA is overall responsible for assigning and training the designated person and ensuring the duties and responsibility of the designated person are performed.

3.02 DESIGNATED PERSON'S RESPONSIBILITIES

The AHERA Designated Person Information (Name, address, telephone number, and training documentation) is located in Appendix A.

ASBESTOS MANAGEMENT RESPONSIBILITIES

EPA requires public school districts and private non-profit schools to appoint an asbestos management coordinator, called the "AHERA Designated Person." This person is responsible for a number of asbestos-related activities, including the implementation of the plan for managing asbestos-containing building materials (ACBM) in the school buildings and compliance with the federal asbestos regulations.

The Designated Person's Duties and Responsibilities for managing the ACBM in the school are as follows:

- Ensure that the activities of any persons who perform inspections, reinspections, and periodic surveillance, develop and update management plans, develop and implement response actions, and conduct operations and maintenance activities are in compliance with all of the AHERA requirements.
- Ensure that all custodial and maintenance workers are properly trained.
- Ensure that workers and building occupants or their legal guardians are notified at least annually about activities relating to ACBM.
- Ensure that short-term workers who may come in contact with asbestos in a school are provided the locations of ACBM and suspected ACBM assumed to be ACBM.
- Ensure that warning labels are properly posted.
- Ensure that management plans are available for inspection.
- Consider whether any conflict of interest may arise among personnel undertaking activities related to the ACBM in a school or schools.

ASBESTOS RECORDKEEPING RESPONSIBILITIES

As an asbestos program manager, the Designated Person must see to it that the following records are kept in the management plan:

- General information, such as the list of the names and addresses of all school buildings, whether the school building contains ACBM or suspected ACBM
- AHERA Designated Person information
- Inspection and reinspection reports, including assessments and recommendations and sampling results

- Description of the operations and maintenance program, including documentation on operations and maintenance activities
- Response action, fiber release episode and preventive measure documentation, including air clearance sampling, accreditation certificates of persons designing and conducting the activities, etc.
- Updated information on the locations of ACBM
- Information on future activities, such as a plan for reinspections, operations and maintenance (O&M) activities, periodic surveillance inspections, etc.
- Copies and information on required notifications
- Six-month periodic surveillance reports
- Documentation on the training for maintenance and custodial staff

4.0 INITIAL INSPECTION

- A. An AHERA inspection must be conducted by an accredited and state licensed asbestos inspector or management planner. This involves visually inspecting buildings for friable and nonfriable ACBM, sampling such materials unless they are assumed to be ACBM, and having samples analyzed in accordance with AHERA regulations. Once the inspection is complete the inspector must submit the results to the LEA in an inspection report. There are two elements to an AHERA inspection: identification and physical assessment.

4.01 IDENTIFICATION OF ACBM

- A. The initial inspection to identify all the ACBM in a building begins with locating and listing all "homogeneous areas" of material that are suspected to contain asbestos. A "homogeneous area" is an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color and texture. Suspected ACBM in a homogeneous area or functional space must then be treated as ACBM unless samples are taken and the sample analyses show the material to be non-asbestos.
- B. All material suspected to be ACBM must be assumed to be ACBM unless the homogeneous area is **sampled**, and the analysis of the samples shows them to be non-asbestos. Adequate number of samples must be taken or the area will be considered to be ACBM regardless of the results of the analyses.
- C. The results of an AHERA inspection and the assessment must be documented in an **inspection report**. This report will be used by the management planner to make written recommendations on appropriate response actions.

4.02 PHYSICAL ASSESSMENT OF ACBM

- A. Once the inspector has identified all of the ACBM in a building, he or she must perform a physical assessment of all TSI and friable material. Under § 763.88 of the AHERA Rule, the physical assessment of ACBM involves classifying the material into one of the following seven Physical Assessment Categories:
 1. Damaged or significantly damaged thermal system insulation (TSI) ACBM
 2. Damaged friable surfacing ACBM
 3. Significantly damaged friable surfacing ACBM
 4. Damaged or significantly damaged friable miscellaneous ACBM
 5. ACBM with potential for damage
 6. ACBM with potential for significant damage
 7. Any remaining friable ACBM or friable suspected ACBM

The physical assessment may include the following considerations:

- Location and amount of the material
- Condition of the material, specifying:
 - Type of damage or significant damage
 - Severity of damage
 - Extent or spread of damage
- Whether the material is accessible
- Material's potential for disturbance
- Known or suspected causes of damage or significant damage
- Preventive measures that might eliminate the reasonable likelihood of undamaged ACBM from becoming significantly damaged

INITIAL INSPECTION REPORT

5.0 AHERA REINSPECTION AND RECOMMENDED RESPONSE ACTIONS

- A. At least once every three (3) years after the management plan is in effect the LEA will conduct a reinspection of all friable and non-friable known or assumed ACBM in each school building.
- B. Reinspection will be made by an accredited and licensed inspector and for each area of a school building the inspector will:
 - 1) Visually reinspect and reassess the condition of all friable known or assumed ACBM.
 - 2) Visually inspect material that was previously considered nonfriable and touch the material to determine whether it has become friable since the last inspection or reinspection.
 - 3) Identify any homogeneous areas in which material has become friable since the last inspection or reinspection.
 - 4) Bulk samples may be collected and submitted for analysis for any homogeneous area of newly friable material that is already assumed to be ACBM.
 - 5) Perform a physical assessment, in accordance with § 763.88 of the AHERA Rule, of the condition of the newly friable material in areas where samples are collected and of newly friable materials in areas assumed to be ACBM.
 - 6) Reassess the condition of friable known or assumed ACBM previously identified.
- C. As part of the three (3) year Reinspection a licensed Asbestos Management Planner will recommended response actions based on the inspectors results.
- D. The current three year reinspection report shall be in the Asbestos Management Plan binder located at the schools and central office. Subsequent three year reinspections shall be stored at the schools and central office and available upon request.

ASBESTOS REINSPECTION REPORT

6.0 PERIODIC SURVEILLANCE

- A. At least once every six months after a management plan is in effect, the LEA must conduct periodic surveillance in each building that contains ACBM or is assumed to contain ACBM. The surveillance does not have to be conducted by an accredited person, but it should be conducted either by the LEA designated person (if he or she is trained) or by someone who is appropriately trained on asbestos (such as a maintenance person).

- B. Periodic surveillance involves a visual inspection of all areas that are identified in the management plan as ACBM or assumed ACBM. In evaluating each homogeneous area, the person conducting the surveillance must visually inspect all areas identified in the management plan as ACBM or suspected ACBM and record whether there are any changes in the condition of the material (including if there are no changes). The date of the surveillance, the name of the person conducting the surveillance, and any change in condition of the ACBM or assumed ACBM must be documented and included in the management plan within a reasonable amount of time, such as 30 days from the periodic surveillance.

- C. Periodic surveillance shall utilize the forms provided in this section and will be maintained in the section of the management plan.

PERIODIC SURVEILLANCE REPORT

7.0 ANNUAL NOTIFICATION LETTER

- A. The Designated Person is responsible for annually informing parents, guardians and employees of the availability of the asbestos management plan. This notification is to be documented and maintained in the AHERA Management Plan.
- B. Notification is provided on the schools district website:
<http://www.arps.org/>
- C. ATC Group Services LLC provided a sample of a notification letter.

Date: _____

AHERA NOTIFICATION FORM

Dear Parents, Students, Legal Guardians, and Employees:

In 1986, Congress passed the Asbestos Hazard Emergency Response Act (AHERA) which requires schools to be inspected to identify any asbestos containing building materials. Amherst-Public Regional School District was inspected and suspect materials were sampled by licensed site inspectors. Asbestos-materials conditions were rated according to EPA AHERA protocols. Every three years, Amherst-Public Regional Schools are required to be re-inspected to determine any known or suspected asbestos-containing buildings materials (ACBM) has changed and recommendations are made on the managing or abatement of the ACBM

The law further requires an asbestos management plan to be developed and implemented to monitor any known or suspected ACBM. The plan has several ongoing requirements: publish a notification on management plan availability and the status of asbestos activities; educate and train its employees about asbestos and how to deal with it; notify short-term or temporary workers on the locations of the asbestos containing building materials; post warning labels in routine maintenance areas where asbestos was previously identified or assumed; follow set plans and procedures designed to minimize the disturbance of asbestos containing building materials; and survey the condition of these materials every six months to assure that they remain in good condition.

It is the intention of Amherst-Public Regional School District to comply with all federal and state regulations controlling asbestos and to take whatever steps are necessary to ensure students and employees a healthy and safe environment in which to learn and work. You are welcome to review a copy of the asbestos management plan in the school administrative office during regular business hours.

If you have any questions or concerns please contact me at the number listed below.

Mr. James McPherson
Director of Facilities
Amherst-Public Regional School District
Amherst, MA 01002
Phone: 413-362-1855

8.0 NOTIFICATION TO SHORT-TERM WORKERS AND CONTRACTORS

- A. The Designated Person is responsible for notifying short-term workers and contractors who come in contact with asbestos of:
 - a. Locations of identified or suspected ACM
 - b. The availability of the AHERA Management Plan
- B. The Designated Person will have the short-term worker and contractor notice signed by the company and placed into the AHERA Management Plan.
- C. The “**Short-Term Worker and Contractor Notice**” will be sent out and signed by contract vendors initially and annually depending if the same vendor/contractor shall be performing activities in the Fort River School for over a year.

SHORT-TERM WORKER AND CONTRACTOR NOTICE

**AMHERST-PELHAM PUBLIC SCHOOL DISTRICT
FORT RIVER SCHOOL**

ASBESTOS SHORT-TERM WORKER AND CONTRACTOR NOTICE

Date: _____

Project Description: _____

Prime Contractor/Vendor: _____

(Address)

I have been informed that asbestos-containing materials have been identified at:

**Fort River School
70 South East Street
Amherst, MA 01002**

Asbestos-Containing Materials identified are as follows:

- | |
|--|
| <ul style="list-style-type: none">• 12" x 12" White w/Tan Streaks Floor Tile |
| <ul style="list-style-type: none">• Pipe Fitting Insulation |

The AHERA Management Plan has been made available to me to identify the locations of asbestos-containing building materials (ACBM) and suspected ACBM.

I am aware that it is my responsibility to inform my employees and any and all subcontractors and their employees of the presence of asbestos and the availability of the Management Plan.

Any incident involving the disturbance of asbestos-containing material and any questions will be reported to the Designated Person.

Project Manager (Print): _____
(Prime Contractor/Vendor)

Project Manager (Signature): _____
(Prime Contractor/Vendor)

9.0 EDUCATION AND TRAINING

A. Custodians and Maintenance Personnel

Asbestos awareness training will be conducted for all custodians and maintenance personnel who may conduct tasks where ACM may be contacted or accidentally disturbed. Other persons who should be provided with the opportunity to participate in awareness training include the facility asbestos coordinator and any of the Facility employees and contractors. The training should include at a minimum the following areas of emphasis:

- Background information on asbestos
- Health effects of asbestos
- Locations of ACM at the Facility
- Recognition of ACM damage and deterioration
- Review of the O&M Program for the Facility
- Proper response to fiber release

Custodial and Maintenance workers shall receive two- (2) hour asbestos hazard awareness training within sixty (60) days of hire and receive an annual refresher course.

Asbestos Awareness training course records shall be kept in Appendix B of the AHERA Management Plan.

B. Construction and Repair Contractors

If the facility asbestos coordinator determines that construction or repair work will be performed in an area where an ACM is known to exist, the contractor must have the proper level of training. The contractor must have the following training, which is dependent upon asbestos work activity:

Activity	Initial Training	Annual Refresher
Contract Custodial Work	Asbestos Awareness	Asbestos Awareness
Repair & Maintenance	16 HR OSHA – Class III	OSHA – Class III Refresher Course
Asbestos Abatement	40 Hr. EPA Supervisor Course 32 Hr. EPA Worker Course <i>Supervisor requires to be on-site during project and both must be licensed by the state.</i>	8 Hr. Supervisor 8 Hr. Worker
Project Monitor	40 Hr. Project Monitor Course	8 Hr. Project Monitor
Asbestos Site Inspector	24 Hr. Site Inspector	4 Hr. Inspector
Asbestos Management Planner	16 Hr. Management Planner <i>MP must be an accredited site inspector prior to taken the course</i>	8 Hr. MP Ref
Asbestos Designer	24 Hr. Project Designer	8 Hr. Design Ref.

The Designated Person shall verify the credentials and training records of any construction and repair contractor performing work at this facility. The training records shall be included with the asbestos abatement documentation

10.0 ASBESTOS OPERATIONS AND MAINTENANCE PLAN

10.01 INTRODUCTION

- A. Policy is not to have in-house employees and service contractors conduct activities that will disturb materials containing asbestos. However, there are housekeeping and maintenance activities during which maintenance and custodial staff may come into contact with ACBM. These work activities are to be carried out according to procedures described in this Asbestos O&M Program. The activities are as follows:
1. Stripping of Asbestos-Containing Floor Tile
 2. Burnishing and Dry Buffing of Asbestos-Containing Floor Tile

10.02 CUSTODIAL ACTIVITIES

- A. Stripping of Asbestos-Containing Floor Tile**
1. Sanding of asbestos or presumed asbestos-containing floor tile is prohibited
 2. Floor is to be kept adequately wet during the stripping operation
 3. After stripping and before application of the new wax, the floor should be thoroughly cleaned, while wet
 4. Machines cannot run at speeds greater than 300 rpm during stripping operations
 5. Machine must be equipped with low abrasion pads
- B. Burnishing and Dry Buffing of Asbestos-Containing Floor Tile**
1. Sanding of asbestos or presumed asbestos-containing floor tile is prohibited
 2. Activity can only be performed if there is a sufficient wax finish so that the pad cannot contact the asbestos-containing material
- C. Initial Cleaning**
1. Unless the building has been cleaned using equivalent methods within the previous six months, all areas of the schools listed where friable ACBM or damaged or significantly damaged thermal system insulation ACM, or friable suspected ACBM assumed to be ACM are present shall be cleaned at least once after the completion of the inspection required by 763.85(a) and before the initiation of any response action, other than Operations and Maintenance activities or repair, according to the following procedures:
 - a) HEPA vacuum or steam clean all carpets;
 - b) HEPA vacuum or wet clean all other floors and all horizontal surfaces;
 - c) Dispose of all debris, filters, mop heads, and cloths in sealed, leak tight containers.
 2. The "Cleaning Record Form" is to be completed and maintained in Appendix H.

D. Warning Labels

1. The Local Education Agency shall post signs or attach a warning label immediately adjacent to any friable and non-friable ACBM and suspected ACBM assumed to be ACM located in routine maintenance areas (such as boiler rooms, janitor closets, etc.) at each school building.

This will include:

- a) Friable ACBM that was enclosed, encapsulated or repaired.
- b) ACBM for which no response action was carried out.

All signs or labels shall be prominently displayed in readily visible locations and shall remain posted until the ACBM is removed.

The warning label shall read, in print which is readily visible because of large size or bright color, as follows:

**CAUTION:
ASBESTOS HAZARD
DO NOT DISTURB WITHOUT PROPER TRAINING
AND EQUIPMENT**

E. Prohibited Activities

1. Maintenance staff employees WILL NOT:
 - a) Drill, saw, sand or otherwise mechanically disturb asbestos containing materials, friable or non-friable.
 - b) Damage asbestos-containing materials while moving furniture, equipment or other objects.
 - c) Damage asbestos containing material while performing maintenance and custodial work.
 - d) Store or locate items and equipment on or near asbestos-containing material.
 - e) Clean or wipe floors, ceilings, moldings or other surfaces where asbestos may be present in a dry state or by sweeping with a dry rag, brush or broom.
 - e) Use unapproved vacuums for asbestos containing material and dust.
 - f) Remove Non-asbestos ceiling tiles below asbestos-containing materials without remedial cleaning, proper respiratory and personal protection, clearing the area of building occupants and observing asbestos removal waste disposal procedures.
 - g) Remove or shake clean HVAC system filters dry or without control measures to minimize fiber release.
 - h) Hang items such as plants or pictures on structures or surfaces covered with asbestos-containing materials.
 - i) Do not disturb or displace asbestos-containing ceiling tiles unless properly trained and using approved work procedures as described in Section 10.03 H.

11.0 ASBESTOS EMERGENCY RESPONSE ACTIONS

The following procedures will be followed when asbestos is accidentally disturbed or unexpectedly encountered during routine maintenance, renovation or demolition work.

11.01 GENERAL

- A. Work will stop and the affected area immediately isolated with the required asbestos OSHA warning signs barrier tape.
- B. The responsible area Maintenance Supervisor or other person designated for this purpose will be immediately notified.

The Asbestos Coordinator or the designated asbestos consultant will be notified immediately. The Designated Person will determine if air samples are needed to document air quality conditions. The HVAC system will be modified where possible when and where necessary.

11.02 MINOR FIBER RELEASE EPISODE (< 3 SQUARE OR LINEAR FEET OF ACM)

- A. If the Designated Person recognizes only a minor problem, corrective measures will be performed under the Designated Person's directions to allow for safe resumption of work. Modification of the HVAC system may be required.
- B. Many actions are available if a temporary disturbance has created minor debris. HEPA vacuuming and wet cleaning are necessary cleanup procedures. The Designated Person will make the O&M program required arrangements for the asbestos contractor to carry out these actions.
- C. If an unexpected asbestos containing material is discovered during renovation:
 - 1. Avoidance can be practiced where work flow is modified to avoid any contact or disturbance of the material.
 - 2. Enclosure, encapsulation or repair are always options to control a minor amount of asbestos containing material.
 - 3. Documentation of all actions is necessary.
 - a) The "Minor Fiber Release Episode Form" to be completed and maintained in Appendix G

11.03 MAJOR FIBER RELEASE EPISODE (> THAN 3 SQUARE OR LINEAR FEET OF ACM)

- A. If the Designated Person feels a significant problem (i.e. asbestos debris on floor, potential fiber release in the air) has been created by the disturbed asbestos, all personnel will leave the area, the HVAC system will be modified. The area will then be secured from unauthorized entry and warning signs posted.

- B. The Designated Person will review the asbestos survey report for information.
- C. Designated Asbestos Consultant will be called in immediately if specification and abatement actions are required. (A response action in a school involving greater than 3 square or 3 linear feet of asbestos requires a design specification)
- D. The Designated Person will arrange for actions to restore safe conditions before further work continues.
- E. If the Designated Person recognizes that asbestos abatement will be required for any amount of asbestos, the coordinator will confirm that notifications have been made to the State of MA.
- F. The Designated Person will document all actions that were taken to correct the situation. The "Abatement Action Form" shall be completed and maintained in Appendix C.

11.04 EMERGENCY CALL-IN NUMBERS

SCHOOL CONTACTS

Principal: Diane Chamberlain
(413) 362-1200

Designated Person: James McPherson
413-362-1855

ABATEMENT CONTRACTOR

Abide, Inc,
483 Shaker Road
East Longmeadow, MA 0142028
(413) 525-0644

ENVIRONMENTAL CONSULTANT

ATC Group Services LLC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070,
(413) 478-4464 (Derrick Wissman)
(413) 426-6819 (Edward Kolodziej)

12.0 EVALUATION OF RESOURCES

Cost associated with implementing and maintaining the AHERA Asbestos Management Plan are as follows, but not limited to:

- Training
 - ✓ Custodial (2-Hr. Asbestos Awareness)
 - In-House
 - Contractor\Consultant
 - ✓ 16-Hr Associated Project Worker (OSHA Class III)
 - ✓ Designated Person Training
 - ✓ Refresher Training
 - In-House
 - Contractor\Consultant
- Equipment & Supplies
 - ✓ HEPA Vacuum
 - ✓ Asbestos Waste Disposal Bags
 - ✓ Polyethylene Sheeting
 - ✓ Respirators & HEPA Cartridges
 - ✓ Dust Tape, Spray Adhesive, etc.
 - ✓ Glovebags
 - ✓ Disposable Suits
 - ✓ Water Spray Bottles
 - ✓ Signs, Labels and Barrier Tape
 - ✓ Personal Monitoring Equipment & Lab Analysis
- Asbestos Waste Storage & Disposal
- 3 – Year Reinspections
- Periodic Surveillances
- Asbestos Bulk Sampling
- Initial Cleaning Activities
 - ✓ In-House
 - ✓ Contractor
- Associated Project Work Activities (OSHA Class III)
 - ✓ In-House
 - ✓ Contractor
- Asbestos Abatement Response Actions
 - ✓ Contractor
 - ✓ Consultant
 - Project Design
 - Asbestos Project Monitoring
 - Final Air Clearance Testing
- Asbestos Hazard Assessments for Fiber Release Episodes
 - ✓ Air Sampling Analysis
 - ✓ Bulk Sampling Analysis
 - ✓ Dust Sampling Analysis
- Replacement cost of ACBM that was removed
- Recordkeeping

APPENDIX A
DESIGNATED PERSON STATEMENT

DESIGNATED PERSON STATEMENT

I certify that as the person designated per 40 CFR 763.84(g) to ensure that the duties of the LEA as described in Section 3 of the AHERA Management Plan are conducted. As the designated person I received adequate training and understand the duties and recordkeeping requirements to maintain the AHERA Management Plan.

Date: _____

Designated Person Name: (Print) James McPherson

Designated Person Name: (Signature) _____

Address: 170 Chestnut Street

Amherst, MA 01002

Telephone: 413-362-1855

Training Course(s): _____

APPENDIX B
CUSTODIAL TRAINING RECORDS

APPENDIX C

ABATEMENT ACTION FORM

ABATEMENT ACTION FORM

FORT RIVER SCHOOL

LEA NAME: _____

SCHOOL NAME: _____

Use this form to document removal, enclosure, and encapsulation or repair materials greater than 3 Square or Linear Feet of Asbestos Containing Building Materials (ACBM). Provide one- (1) form for every abatement action.

1. Provide or attach detailed written description of abatement action.

Starting Date: _____ Completion Date: _____

2. Name of Abatement Contractor: _____

Address: _____

License #: _____

3. Name of Abatement Designer: _____

Address: _____

License#/Agency: _____

4. Air Monitoring Laboratory: _____

Address: _____

Accreditation#: _____

5. Name of Waste Disposal Site: _____

Address: _____

Date: _____

6. Attach Air Monitoring Report which provides the following information:

- a. Air Monitoring Final Clearance Report (TEM)
- b. Location of Samples and Date Collected
- c. General Description of Analyzing Method Used
- d. Name of Analyst and Signature
- e. Result of Analyses
- f. Laboratory Accreditation Statement (if applicable)

APPENDIX D

MANAGEMENT PLANNER & INSPECTOR CERTIFICATION

APPENDIX E

ASBESTOS-CONTAINING MATERIAL WARNING SIGN

CAUTION

Asbestos-Containing Materials identified:

- 12" x 12" White w\Tan Streaks Floor Tile
- Pipe Fitting Insulation

**ASBESTOS
HAZARDOUS**

**DO NOT DISTURB
WITHOUT
PROPER TRAINING & EQUIPMENT**

**DANGER
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS**

*If Damaged Report Immediately to
Designated Person
Mr. James McPherson
413-362-1855*

APPENDIX F

MINOR FIBER RELEASE EPISODE FORM

**AMHERST-PELHAM REGIONAL SCHOOL DISTRICT
FORT RIVER SCHOOL**

MINOR FIBER RELEASE EPISODE FORM

Date of Episode:

Location:

Type of ACBM:

Describe the fiber release episode including preventive measure methods:

Persons/Contractor performing activity:

State of Mass Emergency Notification No.:

ACBM Waste Storage Location and Disposal Site:

APPENDIX G

CLEANING RECORD FORM

**AMHERST-PELHAM REGIONAL SCHOOL DISTRICT
FORT RIVER SCHOOL**

CLEANING RECORD FORM

Cleaning:

- Cleaning after initial inspection
 Additional cleaning approved by the LEA and conducted as part of the O&M program

Date of Cleaning:

Location:

Cleaning Methods:

- HEPA Vacuuming Wet Cleaning Methods

Describe other:

Person(s) \ Contractor performing Cleaning:

APPENDIX H

RESOURCE EVALUATION COST TABLES

EVALUATION OF RESOURCES

Estimated AHERA Management Plan Costs

Description	Cost Estimate
2-Hr Awareness Training	Video or DVD \$300-\$500 for In-house training (Does not include personnel attendance time and instructor's time)
	Contractor\Consultant \$800-\$1000 (Dependent on Class Size and Location) (Does not include personnel attendance time)
16-Hr Associated Project Worker	\$300 \ Person (Does not include travel and worker's salary)
Designated Person Training	\$200 - \$500 (Dependent on instruction & location)
Refresher Training	2-Hour performed in-house (calculate personnel & instructor's time) 16-hour - \$100\Person for class attendance (4 hours and does not include travel and worker's salary)
Equipment & Supplies	\$1,500 - \$4,500 (Dependent on brands and amount of specialized equipment and maintaining purchased equipment)
Asbestos Waste & Disposal (O&M Activity)	\$250 - \$500 (Dependent on amount of waste bags and site location)
3-Year Reinspection	(Dependent on amount of schools, size, identified ACBM and previous inspection data) Small School: \$750-\$1,500 Medium School: \$1,750 - \$3,000 Large School: \$3,000 - \$5,000
Asbestos Bulk Sampling	Cost incurred on as needed basis and is based on the inspector's collection & report time, number of samples and lab turnaround time
Asbestos Hazard Assessment	Cost incurred on as needed basis and is based on the nature and severity of the disturbance, inspector's investigation & report time, number of samples, type of samples and lab turnaround time

EVALUATION OF RESOURCES

Estimated Response Action Cost Table

Material Type	Unit	Removal	Replacement
Boiler, Breeching, Tank and Surface Coatings	Square Feet	\$12.00 - \$15.00	\$8.00-\$10.00
Thermal Magnesia Pipe Insulation	Linear Feet	\$12.00 - \$15.00	\$8.00-\$10.00
Aircell or Layered Pipe Insulation	Linear Feet	\$10.00 - \$12.00	\$6.00-\$8.00
Resin Coated Cork Pipe or Fiberglass Pipe Insulation	Linear Feet	\$10.00 - \$12.00	\$6.00-\$8.00
Cement Pipe Fitting Insulation on Non-Asbestos Insulated Pipes	Each	\$8.00 - \$10.00	\$12.00-\$14.00
Spray-Applied Fireproofing	Square Feet	\$12.00 - \$15.00	\$6.00-\$8.00
Acoustical Ceiling Application	Square Feet	\$12.00 - \$15.00	\$4.00-\$6.00
Sheetrock or Other Wallboard Types	Square Feet	\$5.00 - \$7.00	\$4.00-\$6.00
Ceiling or Wall Plaster	Square Feet	\$12.00 - \$15.00	\$7.00-\$10.00
Cloths (Curtains, HVAC Flex Connectors, etc.)	Square Feet	\$5.00 - \$7.00	
Floor Tile mastic or Glue Daubs	Square Feet	\$3.00 - \$5.00	
Resin on Cork or Fiberglass Blocks	Square Feet	\$8.00 - \$10.00	
Floor Tiles or Vinyl Floor Sheeting	Square Feet	\$2.00 - \$3.00	\$3.00 - \$5.00
Suspended or Spline Ceiling Tiles	Square Feet	\$3.00 - \$5.00	\$4.00 - \$6.00
Roofing Felts or Flashing	Square Feet	\$2.00 - \$3.00	\$4.00 - \$6.00
Disposal	Cubic Yard	\$70.00 - \$100.00	

Note:

1. Additional costs may be incurred due to project difficulty, specialized equipment and for Architect\Engineering Costs.
2. Cost estimate table utilized for large projects. Small projects can range from \$2,000 - \$3,500 in a school which would require a design, abatement and monitoring\air clearance testing.
3. Standard Engineering and Operational fees should be estimated at 15 to 25 percent (15%-25%) of the total removal and replacement estimated cost.