Cushing Elementary School
One Aberdeen Drive
Scituate, Massachusetts

AHERA INSPECTION REPORT/MANAGEMENT PLAN

May 2021

PREPARED FOR:

Scituate Public Schools
606 Chief Justice Cushing Highway
Scituate, Massachusetts
Attn: Mr. Robert Dillon

PREPARED BY:

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VERTEX Project No: 69699

Table of Contents

Introduction

The Vertex Companies, Inc. (VERTEX) conducted a 3-Year Re-inspection on April 20, 2021 as required by the 40 CFR 763 Asbestos Hazard Emergency Response Act (AHERA) at the Cushing Elementary School located at One Aberdeen Drive in Scituate, Massachusetts. The AHERA regulation requires that each Local Education Agency (LEA) retain a certified/accredited Asbestos Inspector to conduct an initial inspection of all friable and non-friable known or assumed asbestos-containing building materials (ACBM) in each school building that they lease, own, or otherwise uses as a school building. The AHERA re-inspection is to be performed by an accredited inspector at least once every three years from the time of implementation of the original management plan. In addition, the LEA is responsible for conducting Six-Month Periodic Surveillance Inspections as required to effectively manage the identified ACBMs in place at the school.

The Scituate Public School District may utilize the information obtained from the AHERA inspection to effectively manage the ACBMs identified at the Cushing Elementary School.

SECTION 1

INSPECTION REPORT

Section 1
Inspection Report

Inspection Protocol

Massachusetts Department of Labor Standards (DLS) Certified Asbestos Inspector, Jason Mohre (AI#000262) performed the AHERA inspection. The Management Plan was updated by Massachusetts DLS Certified Asbestos Management Planner, Jason Mohre (AP#000080). The purpose of the inspection was to identify friable and non-friable ACBMs and perform a hazard assessment. As required by the AHERA regulation, the inspection survey procedures must include a visual inspection and assessment of the condition of all known locations of friable and non-friable ACBMs. It should be noted that under the AHERA regulations only ACBMs are inspected within the school building, other asbestos containing materials (ACMs) may be associated with the school that do not fall under AHERA ACBM definition. Examples of materials which have been found to contain asbestos include but are not limited to exterior window caulking, window glazing, and roofing material. Prior to school renovations any suspect materials not sampled or listed within the school's AMP, must be tested prior to disturbance. Furthermore, VERTEX recommends an Asbestos Containing Materials (ACMs) Survey be conducted prior to any renovation activities to comply with the Environmental Protection Agency (EPA) Title 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs) and the Massachusetts Department of Environmental Protection Regulations. Documentation for subsequent surveys not related to AHERA should be included in the overall Management Plan.

Assessment of potential asbestos hazards are subject to each individual inspector's judgment, and as a result, hazard assessments may vary.

Furthermore, the LEA Designated Person should assume that potential asbestos-containing pipe and fitting insulation or other ACBMs may be located behind walls and ceilings not accessible. Any renovation/demolition work that may penetrate these areas should be inspected prior to disturbance.

All available documentation of asbestos abatement projects, which have occurred since the initial AHERA inspection should be included with the Management Plan for the school.

VERTEX was provided and reviewed the following documents for the Cushing Elementary School facility:

- AHERA Inspection and Management Plan for Cushing Elementary School facility prepared by Covino, dated November 2013.
- AHERA Inspection and Management Plan for Cushing Elementary School facility prepared by TRC, dated April 2016.

Appendix D contains Certification Page for the Inspector and Management Planner involved with the inspection of the school.

Locations of the identified ACBMs with quantities observed, conditions assessed, homogeneous hazard assessment are presented in Appendix A of this report.

Section 1
Inspection Report (continued)
Bulk Sampling Methodology

Bulk samples were collected and analyzed to determine the identity of suspect materials and their composition. Bulk samples were collected in the following sampling scheme which is derived from AHERA: For non-friable materials, two (2) or more random samples are taken to determine asbestos content. Miscellaneous material samples are collected in locations where minimal damage would be inflicted on the material during sample collection.

EMSL Analytical Inc. of Woburn, MA using Polarized Light Microscopy (PLM) as described in 40 CFR 763, analyzed the bulk sample results attached. Each bulk sample was analyzed in accordance with U.S. Environmental Protection Agency (EPA) 600/R-93/116 recommended protocol-using PLM.

EMSL Analytical Inc. is accredited through the National Voluntary Laboratory Accreditation Program (#101147-0) and is a Massachusetts certified analytical laboratory (AA000188).

Cushing Elementary School
April 2021 Sample Locations and Results
Table I

Sample Number	Sample Description	Sample Location	Asbestos Content
B-420-1A	1’ x 1’ Ceiling Tile (Fissure)	Main Hallway	None Detected
B-420-1B	1’ x 1’ Ceiling Tile (Fissure)	Hall Between Rooms 20 and 21	None Detected
B-420-2A	Brown Glue Daubs	Hall Between Rooms 20 and 21	None Detected
B-420-2B	Brown Glue Daubs	Hall Between Rooms 13 and 16	None Detected
B-420-2C	Brown Glue Daubs	Room 4.5	None Detected

Section 1
Inspection Report (continued)
Bulk Sampling Methodology

Bulk samples were not collected during the current reinspection. Bulk samples were collected by Covino Environmental (Covino) during their August 2013 inspection activities. The following table outlines the building materials collected and analyzed by Covino:

Cushing Elementary School
August 2013 Sample Locations and Results
Table I

Sample Number	Sample Description	Sample Location	Asbestos Content
1A	6" Pipe Fitting Insulation	Pipe Tunnel	None Detected
1B	6" Pipe Fitting Insulation	Pipe Tunnel	None Detected
1C	6" Pipe Fitting Insulation	Pipe Tunnel	None Detected
2A	**1" Pipe Fitting Insulation**	**Pipe Tunnel**	**None Detected**
2B	**1" Pipe Fitting Insulation**	**Pipe Tunnel**	**None Detected**
2C	**1" Pipe Fitting Insulation**	**Pipe Tunnel**	**None Detected**
2D	**1" Pipe Fitting Insulation**	**Boiler Storage Room**	**2 % Chrysotile**
2E	**1" Pipe Fitting Insulation**	**Girls Restroom**	**Positive Stop**
2F	**1" Pipe Fitting Insulation**	**Custodian Attic by Library**	**Positive Stop**
2G	**1" Pipe Fitting Insulation**	**Room 10 Closet**	**Positive Stop**
3A	Plaster Base Coat	Boiler Room	None Detected
3B	Plaster Base Coat	Boiler Room	None Detected
3C	Plaster Base Coat	Boiler Room	None Detected
3D	Plaster Base Coat	Boys Room by Rm 12	None Detected
3E	Plaster Base Coat	Boys Room by Rm 12	None Detected
4A	Plaster Skim Coat	Boiler Room	None Detected
4B	Plaster Skim Coat	Boiler Room	None Detected
4C	Plaster Skim Coat	Boiler Room	None Detected
4D	Plaster Skim Coat	Boys Room by Rm 12	None Detected
4E	Plaster Skim Coat	Boys Room by Rm 12	None Detected
5A	Duct Vibration Dampener Cloth	Boiler Room	None Detected
5B	Duct Vibration Dampener Cloth	Boiler Room	None Detected
6A	Canvas Covering on Exhaust Breeching	Boiler Room	None Detected
6B	Canvas Covering on Exhaust Breeching	Boiler Room	None Detected
6C	Canvas Covering on Exhaust Breeching	Boiler Room	None Detected
7A	Plaster Base Coat	Storage	None Detected
7B	Plaster Base Coat	Small Kitchen Storage	None Detected
7C	Plaster Base Coat	Small Kitchen Storage	None Detected
8A	Plaster Skim Coat	Storage	None Detected
8B	Plaster Skim Coat	Small Kitchen Storage	None Detected
8C	Plaster Skim Coat	Small Kitchen Storage	None Detected

Cushing Elementary School
August 2013 Sample Locations and Results
Table I (Continued)

Sample Number	Sample Description	Sample Location	Asbestos Content
9A	**Abandoned Generator Exhaust Insulation**	**Hall by Generator Room**	**30 % Chrysotile 15% Amosite**
9B	**Abandoned Generator Exhaust Insulation**	**Hall by Generator Room**	**Positive Stop**
9C	**Abandoned Generator Exhaust Insulation**	**Kitchen Storage**	**Positive Stop**
10A	4' x 8' Tectum Ceiling Panels	Hall by Electric Room	None Detected
10B	4' x 8' Tectum Ceiling Panels	Library	None Detected
10C	4' x 8' Tectum Ceiling Panels	Room 10	None Detected
11A	Walkin Cooler Ceiling Insulation	Kitchen	None Detected
11B	Walkin Cooler Ceiling Insulation	Kitchen	None Detected
12A	Walkin Cooler Wall Insulation	Kitchen	None Detected
12B	Walkin Cooler Wall Insulation	Kitchen	None Detected
13A	1' x 1' Pin-hole Ceiling Tile	Kitchen	None Detected
13B	1' x 1' Pin-hole Ceiling Tile	Kitchen	None Detected
13C	1' x 1' Pin-hole Ceiling Tile	Kitchen	None Detected
14A	1' x 1' Fissured Ceiling Tile	Kitchen Office	None Detected
14B	1' x 1' Fissured Ceiling Tile	Room 2A	None Detected
14C	1' x 1' Fissured Ceiling Tile	Girls Room by Rm 12	None Detected
15A	**9" Gray Floor Tile**	**Kitchen Office**	**15 % Chrysotile**
15B	**9" Gray Floor Tile**	**Room 1**	**Positive Stop**
15C	**9" Gray Floor Tile**	**Room 8**	**Positive Stop**
16A	**9" Gray Floor Tile Mastic**	**Kitchen Office**	**15 % Chrysotile**
16B	**9" Gray Floor Tile Mastic**	**Room 1**	**Positive Stop**
16C	**9" Gray Floor Tile Mastic**	**Room 8**	**Positive Stop**
17A	4" Gray Covebase	Kitchen Office	None Detected
17B	4" Gray Covebase	Room 8	None Detected
17C	4" Gray Covebase	Room 12	None Detected
18A	4" Gray Covebase Adhesive	Kitchen Office	None Detected
18B	4" Gray Covebase Adhesive	Room 8	None Detected
18C	4" Gray Covebase Adhesive	Room 12	None Detected
19A	2' x 4' Fissured Ceiling Tile	Cafeteria	None Detected
19B	2' x 4' Fissured Ceiling Tile	Cafeteria	None Detected
19C	2' x 4' Fissured Ceiling Tile	Cafeteria	None Detected
20A	Plaster Base Coat	Hall by Cafeteria	None Detected
20B	Plaster Base Coat	Hall by Cafeteria	None Detected
20C	Plaster Base Coat	Hall by Cafeteria	None Detected
21A	Plaster Skim Coat	Hall by Cafeteria	None Detected
21B	Plaster Skim Coat	Hall by Cafeteria	None Detected
21C	Plaster Skim Coat	Hall by Cafeteria	None Detected

Cushing Elementary School
August 2013 Sample Locations and Results
Table I (Continued)

Sample Number	Sample Description	Sample Location	Asbestos Content
22A	**9" Brown Floor Tile**	**Cafeteria**	**10 % Chrysotile**
22B	**9" Brown Floor Tile**	**Room 21A**	**Positive Stop**
22C	**9" Brown Floor Tile**	**Room 21A**	**Positive Stop**
23A	**9" Brown Floor Tile Mastic**	**Cafeteria**	**10 % Chrysotile**
23B	**9" Brown Floor Tile Mastic**	**Room 21A**	**Positive Stop**
23C	**9" Brown Floor Tile Mastic**	**Room 21A**	**Positive Stop**
24A	**9" Black Floor Tile**	**Room 1**	**12 % Chrysotile**
24B	**9" Black Floor Tile**	**Room 5**	**Positive Stop**
24C	**9" Black Floor Tile**	**Room 8**	**Positive Stop**
25A	**9" Black Floor Tile Mastic**	**Room 1**	**12 % Chrysotile**
25B	**9" Black Floor Tile Mastic**	**Room 5**	**Positive Stop**
25C	**9" Black Floor Tile Mastic**	**Room 8**	**Positive Stop**
26A	Gold Carpet Adhesive	Library	None Detected
26B	Gold Carpet Adhesive	Library	None Detected
26C	Gold Carpet Adhesive	Library	None Detected
27A	**Pink Sink Undercoating**	**Room 6**	**12 % Chrysotile**
27B	**Pink Sink Undercoating**	**Room 7**	**Positive Stop**
27C	**Pink Sink Undercoating**	**Room 10**	**Positive Stop**
28A	Tan Sheet Flooring	Library	None Detected
28B	Tan Sheet Flooring	Library	None Detected
28C	Tan Sheet Flooring	Library	None Detected
29A	Tan Sheet Flooring Adhesive	Library	None Detected
29B	Tan Sheet Flooring Adhesive	Library	None Detected
29C	Tan Sheet Flooring Adhesive	Library	None Detected
30A	**9" Green Floor Tile**	**Lobby**	**10 % Chrysotile**
30B	**9" Green Floor Tile**	**Hall by Lobby**	**Positive Stop**
31A	**9" Green Floor Tile Mastic**	**Lobby**	**10 % Chrysotile**
31B	**9" Green Floor Tile Mastic**	**Hall by Lobby**	**Positive Stop**
32A	Gypsum Wall Board	Room 21B	None Detected
32B	Gypsum Wall Board	Room 21B	None Detected
32C	Gypsum Wall Board	Room 21C	None Detected
33A	**Joint Compound**	**Room 21B**	**2 % Chrysotile**
33B	**Joint Compound**	**Room 21B**	**Positive Stop**
33C	**Joint Compound**	**Room 21C**	**Positive Stop**
34A	**Gray Sink Undercoating**	**Room 21C**	**10 % Chrysotile**
34B	**Gray Sink Undercoating**	**Room 21C**	**Positive Stop**
35A	Interior Window Glazing	Room 10	None Detected
35B	Interior Window Glazing	Room 4	None Detected
35C	Interior Window Glazing	Room 15	None Detected

Cushing Elementary School
August 2013 Sample Locations and Results
Table I (Continued)

Sample Number	Sample Description	Sample Location	Asbestos Content
36A	**Interior Window Glazing Hallway**	**Room 10**	**None Detected**
36B	**Interior Window Glazing Hallway**	**Room 11**	**None Detected**
36C	**Interior Window Glazing Hallway**	**Room 21A**	**2 % Chrysotile**
37A	**Cementitious Panel Under Windows**	**Faculty Room**	**40 % Chrysotile**
37B	**Cementitious Panel Under Windows**	**Room 11**	**Positive Stop**
37C	**Cementitious Panel Under Windows**	**Room 10**	**Positive Stop**
38A	Gypsum Wall Board	Hall at Room 14	None Detected
38B	Gypsum Wall Board	Room 15	None Detected
38C	Gypsum Wall Board	Hall at Room 23	None Detected
39A	Seam Sealant on Gypsum Wall Board	Hall at Room 14	None Detected
39B	Seam Sealant on Gypsum Wall Board	Room 15	None Detected
39C	Seam Sealant on Gypsum Wall Board	Hall at Room 23	None Detected
40A	12" White/Blue Floor Tile	Hall at Room 14	None Detected
40B	12" White/Blue Floor Tile	Connecter	None Detected
40C	12" White/Blue Floor Tile	Hall at Room 16	None Detected
41A	12" White/Blue Floor Tile Mastic	Hall at Room 14	None Detected
41B	12" White/Blue Floor Tile Mastic	Connecter	None Detected
41C	12" White/Blue Floor Tile Mastic	Hall at Room 16	None Detected
42A	12" Gray Floor Tile	Hall at Room 16	None Detected
42B	12" Gray Floor Tile	Hall at Room 16	None Detected
42C	12" Gray Floor Tile	Hall at Room 16	None Detected
43A	12" Gray Floor Tile Mastic	Hall at Room 16	None Detected
43B	12" Gray Floor Tile Mastic	Hall at Room 16	None Detected
43C	12" Gray Floor Tile Mastic	Hall at Room 16	None Detected
44A	Brown Glue Daub Associated w/Metal Hatch	Hall at Room 16	None Detected
44B	Brown Glue Daub Associated w/Metal Hatch	Hall at Room 16	None Detected
44C	Brown Glue Daub Associated w/Metal Hatch	Hall at Room 16	None Detected

Bold indicates bulk sample analyzed positive for Asbestos (>1% asbestos containing)
Positive Stop indicates representative bulk sample analyzed positive for Asbestos.

Section 1
Inspection Report (continued)

The following is a list of materials that were determined or assumed to be asbestos-containing:

9” Gray Floor Tile
9” Green Floor Tile
9” Black Floor Tile
9” Brown Floor Tile
Black Residual Mastic
Pipe Fitting Insulation
Interior Window Glazing
9” Gray Floor Tile Mastic (Black)
9” Green Floor Tile Mastic (Black)
9” Black Floor Tile Mastic (Black)
9” Brown Floor Tile Mastic (Black)
Cementitious Panel Under Window
Pink Sink Undercoating
Joint Compound

Based on the review of the TRC 2017 Re-Inspection report the following materials had been removed from the Management Plan:

Abandoned Generator Exhaust Breeching Insulation

The following is a list of materials that were found and determined to be non-asbestos:

12" White/Blue Floor Tile
12" Gray Floor Tile
Tan Sheet Flooring
Plaster Base Coat
Duct Vibration Dampener Cloth
4' x 8' Tectum Ceiling Panels
1' x 1' Pin-hole Ceiling Tile
4" Gray Covebase
2' x 4' Fissured Ceiling Tile
Gold Carpet Adhesive
Brown Glue Daub Associated w/Metal Hatch
12" White/Blue Floor Tile Mastic
12" Gray Floor Tile Mastic
Tan Sheet Flooring Adhesive
Plaster Skim Coat
Canvas Covering on Exhaust Breeching
Walkin Cooler Ceiling Insulation
1' x 1' Fissured Ceiling Tile
4" Gray Covebase Adhesive
Gypsum Wall Board
Seam Sealant on Gypsum Wall Board

VERTEX recommends an ACMs Survey be conducted prior to any renovation activities to comply with the EPA Title 40 CFR Part 61, NESHAPs and the Massachusetts Department of Environmental Protection Regulations.

Section 1
Inspection Report (continued)
Hazard Assessment

Each ACBM homogeneous area is assessed to determine the asbestos hazard. Factors considered when assessing homogeneous area hazard include: the friability of the material, the condition of material including type, severity, and extent of damage, the material's potential for disturbance (including accessibility and air flow) and the material's potential for damage. From this classification, a decision tree is used to determine the appropriate response action sufficient to protect human health and environment.

The location, estimated quantities, condition and Homogenous Area Hazard Assessment Category for the identified ACBMs are presented in Appendix A. The following is homogenous area assessment for each ACBM identified.

Homogeneous Area Assessment

Homogeneous Area #1-Pipe Fitting Insulation

Classification: Friable Thermal System Insulation

Asbestos-containing Pipe Fitting Insulation is located in the General Storage, Boys and Girls Bathrooms, Room 10 Storage, and Crawl Space. In addition, the Designated Person should assume that potential asbestos-containing pipe fitting insulation may be located behind walls and ceilings not accessible. Please refer to Appendix A which includes the locations, conditions, and estimated quantities. The pipe fitting insulation where accessible was observed in generally good condition, friable and presents a potential for damage except for displayed damage observed within the Attic by the Library.

Homogeneous Area #2- 9"x 9" Gray Floor Tile

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing 9" x 9" Gray Floor Tile is generally located within classrooms at the school. Please refer to Appendix A for the locations and estimated quantities. The 9" Gray Floor Tile generally displays minor damage, non-friable and presents a potential for damage.

Homogeneous Area #3- 9"x 9" Brown Floor Tile

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing 9" x 9" Brown Floor Tile is located within the Cafeteria at the school. The 9" Brown Floor Tile displays minor damage, non-friable and presents a potential for damage.

Section 1
Inspection Report (continued)
Hazard Assessment

Homogeneous Area #4- 9"x 9" Green Floor Tile

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing 9" x 9" Green Floor Tile is located within the Hallway between Room 6 and 7 at the school. The 9" Green Floor Tile has been painted with in an gray epoxy paint within the Main Hall, Lobby, and Main Office Area. The 9" Green Floor Tile is in generally good condition, is non-friable and presents a potential for damage.

Homogeneous Area #5- 9"x 9" Black Floor Tile

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing 9" x 9" Black Floor Tile is located on the border area of the classrooms at the school. The 9" Black Floor Tile is in generally good condition, non-friable and presents a potential for damage.

Homogeneous Area #6- Black Floor Tile Mastic

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing Black Floor Tile Mastic is generally located in several areas of the school. Please refer to Appendix A for the locations and estimated quantities. The Black Floor Tile Mastic generally is associated with the gray and tan colored 9" Floor Tile which are covered by Carpet, non-friable and presents a potential for damage.

Homogeneous Area #7- Interior Window Glazing

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing Interior Window Glazing is located on the Interior Partition Windows within the Main Hall at the school. The Interior Window Caulking was observed in generally good condition, non-friable and presents a potential for damage.

Homogeneous Area #8- Cementitious Panels Under Windows

Classification: Non-Friable Miscellaneous ACBM

Asbestos-containing Cementitious Panels Under the Windows are generally located on the Perimeter Windows at the school. The Cementitious Panels Under the Windows were observed in generally good condition, non-friable and presents a potential for damage.

SECTION 2

RESPONSE ACTION DETERMINATION

Section 2
Response Action Determination

The following is based on the Decision Tree for Thermal System Insulation Type ACM. The recommended response actions are determined utilizing the "decision tree" approach for Response Action Determination as outlined in EPA's "Asbestos Hazard Emergency Response Act," (AHERA) 40 CFR 763. Because of defined friability factors associated with surfacing and miscellaneous materials versus thermal system insulation, separate decision trees are utilized for each group of materials.

Decision Trees are used to estimate the risk associated with exposure to asbestos in a given homogeneous area, and to recommend certain response actions, which are consistent with regulatory requirements. Eight response actions are recommended for both thermal system insulation and for surfacing/miscellaneous insulation. The response section number given to each homogeneous area indicates a priority for action, the lower the number, the more serious the hazard. Most response actions call for an operations and maintenance program, assuming that this is the least burdensome method which still protects human health and environment. This does not prohibit the building owner from removal of ACM at any time, if that is the preferred response action.

Recommended response actions are based upon the material condition, disturbance, air-flow and the potential for damage. Potential response actions include the following:

1. Significantly Damaged Thermal System Insulation: **Response Action 1.** Isolate the area and restrict access to the area. ACM should be removed as soon as possible.
2. Damaged Thermal System Insulation with High Disturbance: **Response Action 2.** Continue O&M program and remove the ACM as soon as possible or reduce the potential for disturbance.
3. Damaged Thermal System Insulation with Moderate Disturbance and in the Presence of an Air Stream: **Response Action 2.** Continue with O&M Program and remove the ACM as soon as possible or reduce the potential for disturbance.
4. Damaged Thermal System Insulation with Moderate Disturbance: **Response Action 3.** Repair ACM, continue with O&M Program.
5. Damaged Thermal System Insulation with Low Disturbance and in the Presence of an Air Stream: **Response Action 4.** Repair ACM, continue with O&M Program.
6. Damaged Thermal System Insulation with Low Disturbance: **Response Action 5.** Repair ACM, continue with O&M Program.
7. Undamaged Thermal System Insulation with High Disturbance: **Response Action 6.** Continue with O&M Program and take preventative measures to reduce disturbance.
8. Undamaged Thermal System Insulation with Moderate Disturbance: **Response Action 7.** Continue with O&M Program and take preventative measure to reduce disturbance.
9. Undamaged Thermal System Insulation with Low Disturbance: **Response Action 7.** Continue with O&M Program and take preventative measure to reduce disturbance.

Section 2
Response Action Determination

The following is based on the Decision Tree for Surfacing and Miscellaneous ACM. Recommended response actions are based upon friability, material condition, disturbance, air flow and the potential for damage. Potential response actions include the following:

1. Friable Surfacing or Miscellaneous ACM with Significant Damage: **Response Action 1:** Isolate the area and restrict access to the area. Remove the ACM as soon as possible.
2. Friable Surfacing or Miscellaneous ACM with Damage and a High Disturbance: **Response Action 2:** Continue with O&M Program and remove ACM as soon as possible or reduce the potential for disturbance.
3. Friable Surfacing or Miscellaneous ACM with Damage, Moderate Disturbance and in the Presence of an Air Stream: **Response Action 2:** Continue with O&M Program and remove ACM as soon as possible or reduce the potential for disturbance.
4. Friable Surfacing or Miscellaneous ACM with Damage and Moderate Disturbance: **Response Action 3:** Continue with O&M Program and schedule removal when practical and cost-effective
5. Friable Surfacing or Miscellaneous ACM with Damage, Low Disturbance and in the Presence of an Air Stream: **Response Action 4:** Continue with O&M Program and schedule removal when practical and cost-effective
6. Friable Surfacing or Miscellaneous ACM with Damage and Low Disturbance: **Response Action 5.** Continue with O&M Program and schedule removal when practical and cost-effective
7. Friable Surfacing or Miscellaneous ACM with No Damage and High Disturbance: **Response Action 6.** Take preventative measures to reduce the disturbance.
8. Friable Surfacing or Miscellaneous ACM with No Damage and Moderate Disturbance: **Response Action 7.** Take preventative measure to reduce the disturbance.
9. Friable Surfacing or Miscellaneous ACM with No Damage and Low Disturbance: **Response Action 8.** Take preventative measure to reduce the disturbance.
10. Non-Friable Surfacing or Miscellaneous ACM: **Response Action 8:** Continue with O&M until major renovation or demolition requires removal under the EPA NESHAPS, or until hazard assessment factors change.

Section 2
Response Action Determination (continued)

Advantages and Disadvantage to Abatement Alternatives

The decision trees outlined in AHERA 40 CFR 763 are used to provide the "best" alternative for the specific conditions in each homogeneous area.

Below is a discussion of the alternative approaches to asbestos management in a building.

Long Term Operation & Maintenance Program

Advantages:

*Low initial cost for implementation
*Good interim plan
*An O&M program may be implemented and carried out by in house trained personnel.

Disadvantages:

*Asbestos remains in the building
*Condition of the asbestos must be monitored
*Cost of training and special work procedures may be significant
*Effectiveness may be limited where control of the building occupants is difficult

Encapsulation

Advantages:

*Reduces the risk of release of asbestos fibers
*Initial cost is lower than the cost of asbestos removal
*Asbestos-containing material may still serve its initial purpose
*Quick temporary means of repair

Disadvantages:

*Asbestos remains in the building and encapsulant makes removal more difficult
*Improper encapsulation may cause the material to delaminate or pull away from substrate
*Asbestos-containing material must have an O&M program
*Similar preparation for asbestos removal is required for encapsulation
*Long term cost may be greater than asbestos removal is periodic reapplication of the encapsulant is required

Section 2
Response Action Determination (continued)

Enclosure

Advantages:

*Enclosure reduces immediate exposure
*Initial cost of enclosure is lower that the cost of asbestos removal
*Asbestos-containing material may still serve its initial purpose
*Quick temporary means of repair

Disadvantages:

*Asbestos remains in place and later removal is more difficult
*If maintenance is required of the systems insulated with asbestos, the asbestos will be exposed
*An O&M program will have to be implemented for the asbestos-containing material
*Similar preparation for asbestos removal is required for enclosure

Removal

Advantages

*Asbestos-containing material is eliminated from the building
*There is no need for an O&M plan
*Initial cost is great, but the future costs are eliminated

Disadvantages:

*Re-insulating, re-fireproofing, or replacement of materials may be required
*Improper removal may raise levels of airborne fibers higher than background levels
*The initial cost of removal is very high
*Areas of the building involved in asbestos removal may not be occupied during removal

SECTION 3

RECOMMENDED RESPONSE ACTIONS

Section 3
Recommended Response Actions

The recommended response actions are for all the homogenous areas found within the school. The response actions are determined utilizing the decision tree approach for Response Action Determination as described in Section 2.

Homogeneous Area #1-Pipe Fitting Insulation

Response Action 3: The pipe fitting insulation identified within the Attic above Library displayed minor damage. Retain an Asbestos Project Designer to prepare a Work Plan for the repair or remove the damaged pipe fitting insulation and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

Response Action 7: The remaining pipe fitting insulation located at the school is in generally good condition. Limit the potential for disturbance and continue the O&M Program until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change. It should be noted that asbestos-containing pipe fitting insulation may be located above hard ceilings and/or behind walls. As such, a thorough exploratory inspection should be conducted prior to any renovations that may impact wall or ceiling areas.

Homogeneous Area #2- 9”x 9” Gray Floor Tile

Response Action 8: The 9” x 9” Gray Floor Tile identified within Rooms 1, 2, 3, 5, 6, 7, 9, 12, 16 and 17 displayed minor damage. Retain an Asbestos Project Designer to prepare a Work Plan for the removal and replacement of the damaged floor tile and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

Response Action 8: The remaining 9” x 9” Gray Floor Tile located at the school is in generally good condition. Please refer to Appendix A which includes the locations and estimated quantities of the 9” x 9” Gray Floor Tile. Continue the O& M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

Homogeneous Area #3- 9”x 9” Brown Floor Tile

Response Action 8: The 9” x 9” Brown Floor Tile identified within the Cafeteria displayed damage. Retain an Asbestos Project Designer to prepare a Work Plan for the removal and replacement of the damaged floor tile and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

Section 3
Recommended Response Actions (Continued)

Homogeneous Area #4- 9"x 9" Green Floor Tile

Response Action 8: The 9" x 9" Green Floor Tile located within the Hallway between Room 6 and 7 and the 9" Green Floor Tile has been painted with in a gray epoxy paint within the Main Hall, Lobby, and Main Office Area is in generally good condition. Continue the O& M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

Homogeneous Area #5- 9"x 9" Black Floor Tile

Response Action 8: The 9" x 9" Black Floor Tile located throughout the borders of classrooms is in generally good condition. Continue the O& M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

Homogeneous Area #6- Black Floor Tile Mastic

Response Action 8: The Black Floor Tile Mastic is associated and covered with the gray, tan, brown and green colored 9" Floor Tile. Continue the O & M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

Homogeneous Area #7- Interior Window Glazing

Response Action 8: The Interior Window Glazing located in Main Hall is in generally good condition. Continue the O& M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

Homogeneous Area #8- Cementitious Panels Under Windows

Response Action 8: The Cementitious Panels Under the Windows located Perimeter Window Areas are in generally good condition. Continue the O& M Program and manage the material in place until major renovations or demolition requires the removal of this material, or until the hazard assessment factors change.

SECTION 4

RECORDKEEPING REQUIREMENTS AND RECOMMENDATIONS

Section 4
Recordkeeping Requirements and Recommendations

The AHERA regulations have very specific requirement for the maintenance of records associated with the management of the identified ACBMs in the school. The following is a list of some of the key items that the LEA Designated Person must maintain as part of the package:

- Initial AHERA inspection report and Asbestos Management Plan
- Subsequent 3-year reinspection reports.
- 6-month surveillance reports.
- Documentation for minor and major fiber release episodes. This includes abatement work performed by outside contractors as well as work performed by 16 hour trained maintenance personnel no matter how small.
- Documentation for completion of response actions (i.e. clearance testing, waste shipment records, etc.). This should always include applicable training and certification documentation for the parties involved performing the work activities.
- Labeling of ACBM (friable)
- Yearly notice to parents, teachers and staff.
- Training and medical exams for 16-hour trained personnel. Although training does not require renewal. Medicals are to be performed every year. In addition, 16-hour personnel should be fit tested every six months.
- Two-hour awareness training for staff. Any new workers are required to receive this training at start of employment. Training should include specific review of ACBMs in the building their working in.

The above items are some of the key items, which need to be incorporated into the plan. The following are some recommendations are how best to maintain for easy access and review by outside parties:

- Maintain an update the three- ring binder for the school. Have a duplicated copy, one for administration office and one for the facilities office.
- Create tab sections in the binder. Each section should contain the information above. This will allow for easy review and update.
- Ensure that for every major and minor fiber release episode, that all documentation is received.
- As you updated your file, ensure the school's is updated.

Section 4
Recordkeeping Requirements and Recommendations (continued)

Also, it is also required that if outside contractors enter building perform work that they review areas where asbestos may be present that will be near their work. Have a log at the school for them to sign that they have read and understand. This will protect the school from liability and ensure outside contactors will not disturb asbestos. Finally, periodically review program internally and with your 16-hour persons to ensure compliance.

The pipe fitting insulation identified within the Attic above Library displayed minor damage. Retain an Asbestos Project Designer to prepare a Work Plan for the repair or remove the damaged pipe fitting insulation and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

The 9" x 9" Gray Floor Tile identified within Rooms 1, 2, 3, 5, 6, 7, 9, 12, 16 and 17 displayed minor damage. Retain an Asbestos Project Designer to prepare a Work Plan for the removal and replacement of the damaged floor tile and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

The 9" x 9" Brown Floor Tile identified within the Cafeteria displayed damage. Retain an Asbestos Project Designer to prepare a Work Plan for the removal and replacement of the damaged floor tile and retain a Massachusetts certified Abatement Contractor to complete the response action following the Work Plan. Recommended completion date of the work activities: July 2021.

Affix appropriate asbestos warning labels to entrance to Crawl Space and Attic Area above Janitor Closet.

VERTEX recommends implementing a periodic cleaning schedule with properly trained staff (i.e. 2-Hour Asbestos Awareness) utilizing HEPA-vacuums and wet mopping.

A required six-month periodic surveillance inspection should be scheduled for October 2021.

VERTEX recommends an ACMs Survey be conducted prior to any renovation activities to comply with the EPA Title 40 CFR Part 61, NESHAPs and the Massachusetts Department of Environmental Protection Regulations.

SECTION 5

ESTIMATED RESOURCES REQUIRED TO COMPLETE THE RESPONSE ACTIONS

Section 5
Estimated Resources Required to Complete the Response Actions

This section contains the estimated resources required to complete the abatement activities of the identified damaged ACBMs. These estimates will vary according to competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. The cost estimate below does not include abatement contactor mobilization, abatement design and/or project monitoring services.

Estimated Cost to complete the Response Actions at the Cushing Elementary School in Scituate, Massachusetts:

$2,500.00*

Cost Estimate Worksheet can be found in Appendix B.

* The estimated cost provided above is developed from current Abatement Contractor Unit pricing. These estimates will vary according to competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. In addition, the costs above do not include mobilization of the Abatement Contractor, Abatement Work Plan/Design, Project Monitoring and/or Clearance Testing Services for the completion of the response actions. Please refer for below unit pricing regarding costs for the Contractor Mobilization and Clearance Testing Services:

Abatement Work Plan/Design Specification = $500-$2,500.00
Abatement Contactor Mobilization = $1,500.00-$2,500.00
Project Monitoring/Clearance Testing = $520.00-$600.00/per shift
Transmission Electron Microcopy (TEM) Analysis = $75.00-$100.00/sample
Phase Contrast Microscopy (PCM) Analysis = No Charge -$15.00/sample
Clearance Report Preparation = $350.00-$800.00

**The estimated cost provided above does not include costs that may be associated with two-hour asbestos awareness training, OSHA 16-hr Operations and Maintenance Training, and/or the labor to conduct the required six-month surveillance re-inspections. Please refer below for estimated costs that may be associated with the mentioned above:

2-Hour Asbestos Awareness Training = $75/person
OSHA 16-hr Operations and Maintenance Training = $300/person
Six-Month Periodic Surveillance Inspection = $400/inspection

SECTION 6

ESTIMATED RESOURCES REQUIRED FOR THE ABATEMENT OF THE IDENTIFIED ACBMs

Section 6
Estimated Resources Required For Abatement of the Identified ACBMs

This section contains the estimated resources required to perform the removal of identified ACBMS, however EPA recommends the ACBMs to be managed in place if they are not damaged. Alternative abatement costs are estimated using current Abatement Contractor Estimates. These estimates will vary per competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. The cost estimate below is a worst-case scenario if all identified ACBMs were to be removed. The cost estimate below does not include abatement contactor mobilization, abatement design and/or project monitoring services.

Estimated Cost for the Removal of ACBMs from the Cushing Elementary School in Scituate, Massachusetts:

$340,000.00*

Cost Estimate Worksheet can be found in Appendix C.

*The estimated cost above does not include removal of potentially concealed ACBMs within the interior of the school. In addition, the estimated cost provided above does not include abatement of potential ACMs on the exterior of the site building and/or beyond the AHERA inspection.

** The estimated cost provided above is developed from current Abatement Contractor Unit pricing. These estimates will vary according to competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. In addition, the costs above do not include mobilization of the Abatement Contractor, Abatement Work Plan/Design, Project Monitoring and/or Clearance Testing Services for the completion of the response actions. Please refer for below unit pricing regarding costs for the Contractor Mobilization and Clearance Testing Services:

Abatement Work Plan/Design Specification = $500-$2,500.00
Abatement Contactor Mobilization = $1,500.00-$2,500.00
Project Monitoring/Clearance Testing = $520.00-$600.00/per shift
Transmission Electron Microcopy (TEM) Analysis = $75.00-$100.00/sample
Phase Contrast Microscopy (PCM) Analysis = No Charge -$15.00/sample
Clearance Report Preparation = $350.00-$800.00

SECTION 7

OPERATIONS AND MAINTENANCE

Section 7
Operations and Maintenance Program

INTRODUCTION

The Scituate Public School District has established an overall asbestos control program that is designed to minimize exposure of all occupants of the school to asbestos fibers located at the Cushing Elementary School. This Operations and Maintenance (O&M) Plan is an integral part of the overall program. It sets guidelines for the proper in-place management of all assumed and identified asbestos-containing building materials (ACBM) located in the building.

This O&M plan contains the following sections:

A. A description of the **duties of the LEA Designated Person (DP).**

B. A procedure for **notifying** workers, tenants, and other visitors where ACBM are located, and stressing the importance of avoiding disturbing the ACBM in any way.

C. The detailed description of **O&M Activities,** including:

   1. **Emergency procedures** for both major and minor episodes of fiber release;

   2. **Periodic surveillance** of ACBM, so that any changes in the condition of ACBM can be noted, assessed, and documented; and

   3. Detailed descriptions of **work procedures** for both general maintenance and Asbestos Associated Project Workers, which must be used so that workers can avoid or minimize fiber release when performing activities that may disturb ACBM.

D. A list of **records** that must be kept to document O&M and abatement activities.

E. **Training requirements** for the DP, and custodial and maintenance staff.

In general, asbestos represents a health hazard **only** if fibers are breathed into the lungs or, in rare cases, are swallowed. Asbestos-containing materials that are non-friable (i.e. cannot be easily broken of crumbled by hand pressure) are not hazardous as long as they are intact and in good condition. Because friable materials can be easily crumbled or crushed, they are more susceptible to airborne fiber release than are non-friable materials.

It is a policy of the Scituate Public School District that untrained employees and outside contractors **DO NOT** handle, touch or otherwise disturb any material that is asbestos or suspected of containing asbestos. A properly qualified and trained individual must handle any material that is, or may contain asbestos. Non-asbestos materials have been and may be identified by the asbestos coordinator using one or more of the following criteria: (1) lab analysis, (2) results of previous lab analysis, (3) product composition labels, (4) receipts, and so forth. At no time will any employee, student, or outside contractor assume a material to be asbestos-free. An inventory of ACBMs identified from the inspection are presented in Appendix A.

Section 7
Operations and Maintenance Program (Continued)

1. DUTIES OF THE ASBESTOS MANAGEMENT PLAN DESIGNATED PERSON

The DP oversees the implementation and management of the O&M plan. Duties of the DP include (1) notifying building staff, workers, and outside contractors where ACBM is located in the building, (2) assigning workers to tasks involving work that may disturb ACBM, (3) ensuring that abatement and O&M activities are conducted by trained qualified personnel, and (4) keeping records of all asbestos-related activities at the property.

The DP must receive training related to asbestos issues (see "Training Requirements" of this plan).

2. NOTIFICATION

The DP shall ensure that building workers, outside contractors, and tenants are notified of the location, quantity, and physical condition of identified and assumed ACBM that they might disturb. Such notification shall be accomplished by written notice, by personal communication, by posting signs at entrances to mechanical areas, and/or by labeling ACBM. By informing occupants of potential hazards in their vicinity, the notification reduces the possibility that occupants will accidentally disturb ACBM. The notification must stress that persons who disturb ACBM may accidentally release asbestos fibers into the air, and that therefore everyone must avoid disturbing ACBM. This notification will assure compliance with Occupational Health and Safety Administration (OSHA) Regulation 29 CFR Part 1926.1101, which regulates asbestos exposure as it relates to construction work (including building maintenance) and with 29 CFR 1910.1001, which regulates asbestos exposure in general industry (including normal housekeeping).

If asbestos-related construction, abatement, of O&M activities is conducted, the DP shall also notify the following persons about the presence, location, and quantity of ACBM:

A. Employees of the building, such as maintenance and custodial personnel who will work in or adjacent to areas containing ACBM:

B. Staff who will occupy areas containing ACBM.

C. Prospective employers applying for or bidding for work if their employees will be expected to work in or adjacent to areas containing ACBM.

D. Multiple employers occupying a work-site in the building, any of whose employees will be performing work within or adjacent to areas containing ACBM.

Section 7
Operations and Maintenance Program (Continued)

Before conducting any work in the building that has the potential to impact ACBM, contractors will be required to sign the Contractor's Asbestos Notification and Acknowledgment Form. In addition, all contractors and contractor's employees who work on the site will be required to notify the DP of the presence, location, and quantity of newly discovered ACBM within 24 hours (or sooner if ACBM is disturbed) of the discovery. If any building materials are discovered, the asbestos content of which is unknown, the material shall be presumed to contain asbestos, until the results of sampling and analysis prove otherwise. Appropriate sampling of the material shall be conducted by a Massachusetts Department of Labor and Work Force Development Division of Labor Standards accredited asbestos inspector and analyzed at an appropriately licensed asbestos analytical laboratory.

The DP shall ensure that all required warning signs are posted during abatement and O&M activities during which the release of asbestos fibers into the air is possible. Warning signs shall demarcate all regulated areas and shall bear the following information:

DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE
CLOTHING ARE REQUIRED IN THIS AREA

Contractors and in-house personnel who remove ACBM within the site shall label all waste containers that contain ACBM waste in accordance with OSHA and EPA guidelines.

The Massachusetts Department of Environmental Protection (DEP) and the Massachusetts Division of Labor Standards (DLS) will be notified anytime work will impact any quantity of ACBM at the school.

The DP shall ensure that all previously installed ACBM that have been identified in the facility are labeled or identified by signs, as feasible. All ACBM that are friable and accessible, such as TSI located in mechanical areas or below suspended ceilings, will be labeled. Labels shall be attached to or posted in areas where employees, residents, and outside contractors who are likely to be exposed will clearly notice (such as at the entrance to mechanical rooms).

The labels shall bear the following information:

DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
DO NOT BREATHE DUST
AVOID CREATING DUST

Posted signs may be used in lieu of labels to indicate the type and location of each ACBM.

Section 7
Operations and Maintenance Program (Continued)

3. OPERATIONS AND MAINTENANCE ACTIVITIES

Operations and maintenance activities include:

- Emergency procedures to be followed in the event of a major or minor episode of fiber release;
- Periodic surveillance of ACBM within at the school building;
- Work procedures associated with planned maintenance activities that may disturb ACBM. Only properly trained personnel under the control and direction of the DP shall conduct operations and maintenance activities.
- Periodic Cleaning Activities

A. Emergency Procedures for Fiber Release Episodes

Fiber release episodes are categorized as *major* (the falling or dislodging of more than 3 square feet or 3 linear feet of friable ACBM), or minor (the falling or dislodging of fewer than 3 square feet or 3 linear feet of friable ACBM)

PROCEDURE FOR MAJOR EPISODE

1. Restrict entry into the area.

2. Immediately contact the DP

3. Post sign to prevent anyone from entering the area except persons necessary to perform the response action.

4. Shut off or temporarily modify the air-handling system to prevent the fibers from being distributed to other areas in the building.

5. The DP shall contact an accredited designer of abatement to prepare an abatement plan that specifies the appropriate response actions.

6. The DP shall ensure that only a Massachusetts Certified Asbestos Abatement Contractor conducts the response actions.

Section 7
Operations and Maintenance Program (Continued)

PROCEDURE FOR MINOR EPISODE

1. Thoroughly saturate the debris using all wetting methods necessary.

2. Clean the area using wet wiping techniques followed by vacuuming with a specially equipped High Efficiency Particulate Air (HEPA) vacuum.

3. Place all debris and all contaminated cleaning supplies (mop heads, rags, etc.) into a leak tight container, such as a 6-mil thick polyethylene waste bag, and seal the container. Place the sealed container into a second 6-mil thick polyethylene bag. If labeled waste bags are not used, apply warning label to outside of each bag used.

4. Repair the area of damaged ACBM, as follows:

    a. Use materials such as asbestos-free spackling, plaster, cement, or insulation; or

    b. Seal the area with latex paint or an encapsulate; or

    c. Immediately implement other appropriate response action.

B. Periodic Surveillance

Periodic surveillance of all known and assumed ACBM shall be conducted once every six months. The purpose of the regularly scheduled surveillance is to ensure that any ACBM that are damaged or that have deteriorated are detected in a timely manner. The DP shall use the information from the periodic surveillance in conjunction with ongoing reports from the periodic
surveillance in conjunction with ongoing reports from service workers of changes in the condition of the ACBM to take corrective action.

The periodic surveillance consists of a visual inspection of all known and assumed ACBM. Periodic surveillance shall also include a visual and physical evaluation of ACBM in order to determine the degree of damage and to assess the likelihood of future fiber release. The area in the immediate vicinity shall also be examined for potential loose ACBM debris. The DP shall record the cause of the damage.

Only persons who have received at least the minimum asbestos-awareness training (see “Training Requirements”, of this plan) shall conduct the periodic surveillance. The results of the surveillance shall be recorded on the periodic surveillance inspection form.

Section 7
Operations and Maintenance Program (Continued)

C. Work Procedures for General Maintenance Personnel

The following work practices shall be prohibited in all circumstances:

- Drilling holes in ACBM;
- Damaging ACBM while moving furniture or other objects;
- Sweeping of dusting floors, ceilings, moldings, or other surfaces in asbestos-contaminated environments;
- Using an ordinary vacuum to clean up asbestos-containing or asbestos contaminated debris (only vacuums equipped with a HEPA filter should be used);
- Removing potentially contaminated ventilation system filters without thoroughly wetting them; and
- Shaking potentially contaminated ventilation system filters.

D. Periodic Cleaning

The following is a general outline to be utilized for the properly trained personnel to conduct the periodic cleaning activities:

- Utilization of disposable rags to wet wipe of all non-porous horizontal surfaces followed by the use of a HEPA-equipped vacuum. Dry sweeping and/or dusting is not permitted to be used to clean the surfaces.
- The collected debris within the lined HEPA-equipped vacuum and disposal rags should be properly disposed of in a labeled asbestos-waste bag accompanied by a Waste Shipment Record for future disposal at a permitted facility that accepts asbestos waste.
- Document the Name of the individual conducting the work activities, location date and time of cleaning for proper recordkeeping. These records should be included within the AMP for the school.

Section 7
Operations and Maintenance Program (Continued)

4. RECORDKEEPING REQUIREMENTS

The building owner shall maintain the following documentation pertaining to ACBM in the facility:

- All data that are relied upon to demonstrate that suspect ACBM do not in fact contain asbestos.
- All data communicated and received that identify the locations and quantities of ACBM.
- All records associated with abatement projects and O&M activities.These documents shall be maintained during the term of ownership. They shall then be transferred to successive owners, in accordance with OSHA Regulation 1926.1101 (n).
- If the owner's employees conduct activities that may potentially cause them to be exposed to asbestos fibers, the owner shall keep the following additional records:
- All employee exposure-monitoring records pursuant to OSHA Regulation 1926.1101(f).
- All information relative to medical surveillance of employees pursuant to OSHA Regulation 1926.1101(m). Medical surveillance shall be required only if:

    1. Employees are required to conduct tasks that would result in their exposure to airborne concentrations of asbestos above the OSHA permissible exposure limit (PEL); or
    2. If employees conduct asbestos abatement tasks for more than 30 days per year.

- The owner shall maintain all employee-training records for one year beyond the employee's last date of employee's last date of employment.

5. TRAINING REQUIREMENTS

The extent of asbestos training for facility employees depends on the type of asbestos-related activities they will conduct. For most employees who will require training, a two-hour awareness course will be sufficient but necessary. For employees who are involved in activities where exposure to airborne asbestos fibers is likely, a more comprehensive 16-hour training course is necessary.

Section 7
Operations and Maintenance Program (Continued)

AWARENESS TRAINING

The curriculum shall include instruction in the following:

- The location, quantity, and physical condition of all ACBM located in the facility.
- Recognition of damage, deterioration, and delaminating of ACBM.
- The health effects associated with asbestos exposure, including the relationship between smoking and asbestos in producing lung cancer.
- Procedures to be implemented in the event of a minor or major episode of fiber release.
- The requirements for posting signs and affixing labels, and the meaning of the required legends for such signs and labels.

COMPREHENSIVE WORKER TRAINING

The curriculum shall include instruction in the following:

- All awareness training information described above.
- The nature of operations that could result in exposure to asbestos, and the importance
  of necessary protective controls and of procedures for minimizing exposure, including:
  - engineering controls
  - work practices,
  - respirators,
  - housekeeping procedures,
  - hygiene facilities,
  - protective clothing,
  - decontamination procedures,
  - emergency procedures,
  - waste disposal procedures and any necessary instruction in the use of these controls and procedures.

Section 7

Operations and Maintenance Program (Continued)

- The purpose, proper use, fitting instructions, and limitations of respirators.
- Medical surveillance program requirements
- The contents of the OSHA standard (1926.1101) regarding asbestos in construction.
- Hands-on-training in the use of respiratory protection, other personal protection measures, and work practices.

Detailed procedures for conducting small-scale, short duration abatement activities, as defined in Appendix A to Subpart E to EPA Regulation 40 CFR Part 763.

APPENDIX A

LOCATIONS OF THE ASBESTOS CONTAINING BUILDING MATERIALS

Appendix A
AHERA Inspection May 2021
Locations of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Class	Cond.	Fri.	HA #
	First Floor					
Girls Bathroom by Room 1	Pipe Fitting Insulation (Above Ceiling)	13 Units	TSI	U	U	5
Room 1	9" x 9" Gray Floor Tile	770 ft^2	M	MD (30 ft^2)	N	6
	Black Floor Tile Mastic	770 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 2	9" x 9" Gray Floor Tile	770 ft^2	M	MD (20 ft^2)	N	6
	Black Floor Tile Mastic	770 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 3	9" x 9" Gray Floor Tile	770 ft^2	M	MD (16 ft^2)	N	6
	Black Floor Tile Mastic	770 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 4	9" x 9" Gray Floor Tile	770 ft^2	M	MD (10 ft^2)	N	6
	Black Floor Tile Mastic	770 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 5	9" x 9" Gray Floor Tile	770 ft^2	M	MD (2 ft^2)	N	6
	Black Floor Tile Mastic	770 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 6	9" x 9" Gray Floor Tile	770 ft^2	M	MD (6 ft^2)	N	6
	Black Floor Tile Mastic	770 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5

Appendix A
AHERA Inspection May 2021
Locations of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Class	Cond.	Fri.	HA #
	First Floor					
Hall Between Rms 6 and 7	9" x 9" Green Floor Tile	256 ft^2	M	G	N	6
	Black Floor Tile Mastic	256 ft^2	M	C	N	5
Room 7	9" x 9" Gray Floor Tile	770 ft^2	M	MD (30 ft^2)	N	6
	Black Floor Tile Mastic	770 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 8	9" x 9" Gray Floor Tile	770 ft^2	M	G	N	6
	Black Floor Tile Mastic	770 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 9	9" x 9" Gray Floor Tile	770 ft^2	M	MD (30 ft^2)	N	6
	Black Floor Tile Mastic	770 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Library	9" x 9" Gray Floor Tile (Under Carpet)	2880 ft^2	M	C	N	5
	Black Floor Tile Mastic	2880 ft^2	M	C	N	5
Custodian Attic Area by Library	Pipe Fitting Insulation	27 Units	TSI	MD (2)	Y	1
Kitchen	Ceramic Floor Tile Adhesive	1920 ft^2	M	C	N	5
Kitchen Office Area	9" x 9" Gray Floor Tile	84 ft^2	M	G	N	5
	Black Floor Tile Mastic	84 ft^2	M	C	Y	5
	Pipe Fitting Insulation	2 Units	TSI	G	Y	6
Kitchen Storage/Freezer Room	Pipe Fitting Insulation	17 Units	TSI	G	Y	5
General Storage	Pipe Fitting Insulation	15 Units	TSI	G	Y	5
Cafeteria and Rear Entrance Area	9" x 9" Brown Floor Tile	3000 ft^2	M	MD (40 ft^2)	N	6
	Black Floor Tile Mastic	3000 ft^2	M	C	N	5

Appendix A
AHERA Inspection May 2021
Locations of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Class	Cond.	Fri.	HA #
	First Floor					
Lobby	9" x 9" Green Floor Tile (Painted Gray)	500 ft^2	M	G	N	6
	Black Floor Tile Mastic	500 ft^2	M	C	N	5
Room 21A-Nurse	9" x 9" Green Floor Tile (Painted Gray)	608 ft^2	M	G	N	6
	Black Floor Tile Mastic	608 ft^2	M	C	N	5
	Interior Window Glazing	16 lf	M	G	N	5
Room 21B	9" x 9" Green Floor Tile (Painted Gray)	288 ft^2	M	G	N	6
	Black Floor Tile Mastic	288 ft^2	M	C	N	5
	Drywall	150 ft^2	M	G	N	5
	Joint Compound	150 ft^2	M	G	N	5
	Cementitious Panel below Window	24 ft^2	M	G	N	5
Room 21C	9" x 9" Green Floor Tile (Painted Gray)	384 ft^2	M	G	N	5
	Black Floor Tile Mastic	384 ft^2	M	C	N	5
	Drywall	150 ft^2	M	G	N	5
	Joint Compound	150 ft^2	M	G	N	5
	Cementitious Panel below Window	48 ft^2	M	G	N	5
Room 21C Closet	Pipe Fitting Insulation	2 Units	TSI	NF	U	NA
Staff Room	9" x 9" Green Floor Tile (Painted Gray)	672 ft^2	M	G	N	5
	Black Floor Tile Mastic	672 ft^2	M	C	N	5
Faculty Men's Room	9" x 9" Green Floor Tile (Painted Gray)	30 ft^2	M	G	N	5
	Black Floor Tile Mastic	30 ft^2	M	C	N	5
Faculty Women's Room	9" x 9" Green Floor Tile (Painted Gray)	30 ft^2	M	G	N	5
	Black Floor Tile Mastic	30 ft^2	M	C	N	5
Faculty Room Closet	Pipe Fitting Insulation	3 Units	TSI	G	Y	6
	Black Floor Tile Mastic	1 Unit	M	G	N	5

Appendix A
AHERA Inspection May 2021
Locations of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Class	Cond.	Fri.	HA #
	First Floor					
Room 10	9" x 9" Gray Floor Tile	1026 ft^2	M	G	N	5
	Black Floor Tile Mastic	1026 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	90 ft^2	M	G	N	5
	Interior Window Glazing	20 lf	M	G	N	5
Room 10 Closet	9" x 9" Gray Floor Tile	112 ft^2	M	G	N	5
	Black Floor Tile Mastic	112 ft^2	M	G	N	5
	Pipe Fitting Insulation	22 Units	TSI	G	Y	5
Room 11	9" x 9" Gray Floor Tile	1026 ft^2	M	G	N	5
	Black Floor Tile Mastic	1026 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	90 ft^2	M	G	N	5
Room 23	9" x 9" Gray Floor Tile	1026 ft^2	M	G	N	5
	Black Floor Tile Mastic	1026 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	90 ft^2	M	G	N	5
Main Hallway	9" x 9" Green Floor Tile (Painted Gray)	1472 ft^2	M	G	N	5
	Black Floor Tile Mastic	1472 ft^2	M	C	N	5
	Interior Window Glazing	80 lf	M	G	N	5
Custodian/Gym Storage	Pipe Fitting Insulation	16 Units	TSI	G	Y	5
Boys Room by Room 12	Pipe Fitting Insulation	7 Units	TSI	C	Y	5
Girls Room by Room 12	Pipe Fitting Insulation	7 Units	TSI	U	Y	5
Gym	12" x 12" White Floor Tile	2500 ft^2	M	G	N	5
	Black Floor Tile Mastic	2500 ft^2	M	C	N	5

Appendix A
AHERA Inspection May 2021
Locations of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Class	Cond.	Fri.	HA #
		First Floor				
Phys Ed. Office	9" x 9" Black Floor Tile	112 ft^2	M	G	N	5
	Black Floor Tile Mastic	112 ft^2	M	C	N	5
Room 12	9" x 9" Gray Floor Tile	900 ft^2	M	MD (10 ft^2)	N	6
	Black Floor Tile Mastic	900 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	72 ft^2	M	G	N	5
Room 13	9" x 9" Gray Floor Tile	900 ft^2	M	G	N	5
	Black Floor Tile Mastic	900 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Hall Between Rms 13 and 16	9" x 9" Green Floor Tile (Painted Gray)	184 ft^2	M	G	N	5
	Black Floor Tile Mastic	184 ft^2	M	C	N	5
	Interior Window Glazing	40 lf	M	G	N	5
Room 16	9" x 9" Gray Floor Tile	900 ft^2	M	MD (10 ft^2)	N	6
	Black Floor Tile Mastic	900 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 17	9" x 9" Gray Floor Tile	900 ft^2	M	MD (4 ft^2)	N	6
	Black Floor Tile Mastic	900 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 18	9" x 9" Gray Floor Tile	900 ft^2	M	G	N	5
	Black Floor Tile Mastic	900 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5

Appendix A
AHERA Inspection May 2021
Locations of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Class	Cond.	Fri.	HA #
	First Floor					
Room 19	9" x 9" Gray Floor Tile	900 ft^2	M	G	N	5
	Black Floor Tile Mastic	900 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 20	9" x 9" Gray Floor Tile	900 ft^2	M	G	N	5
	Black Floor Tile Mastic	900 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Hall Between Rms 20 and 21	9" x 9" Green Floor Tile (Painted Gray)	240 ft^2	M	G	N	5
	Black Floor Tile Mastic	240 ft^2	M	C	N	5
Room 21	9" x 9" Gray Floor Tile	900 ft^2	M	G	N	5
	Black Floor Tile Mastic	900 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Room 22	9" x 9" Gray Floor Tile	900 ft^2	M	G	N	5
	Black Floor Tile Mastic	900 ft^2	M	C	N	5
	Pink Sink Mastic	1 Unit	M	G	N	6
	Cementitious Panel below Window	42 ft^2	M	G	N	5
Crawl Space off Boiler Room	Pipe Fitting Insulation	360 Units	TSI	G	Y	5

Notes:

ft^2 = Square Foot	Cond. = Condition	U = Unknown	NA = Not Accessible
lf = Linear Foot	G = Good	C = Covered	
Unit = Each	MD = Minor Damage	M = Miscellaneous	
Y= Yes	D = Damaged	S= Surfacing	
N = No	Fri. = Friable	TSI = Thermal System Insulation	

HA # = Homogenous Area Hazard Assessment Category

1 = Damaged/Significantly Damaged Thermal System Insulation
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
NA = Not Applicable

APPENDIX B

ESTIMATED RESOURCES REQUIRED TO COMPLETE THE RESPONSE ACTIONS

Appendix B
AHERA Inspection May 2021
Estimated Resources to Complete Response Actions
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Recommended Response Action	Estimated Cost	Recommended Completion Date of Response Action	Date of Completed Response Action
First Floor						
Room 1	9" x 9" Gray Floor Tile	30 ft^2	Repair	$270.00	July 2021	
Room 2	9" x 9" Gray Floor Tile	20 ft^2	Repair	$180.00	July 2021	
Room 3	9" x 9" Gray Floor Tile	16 ft^2	Repair	$144.00	July 2021	
Room 4	9" x 9" Gray Floor Tile	10 ft^2	Repair	$90.00	July 2021	
Room 5	9" x 9" Gray Floor Tile	2 ft^2	Repair	$18.00	July 2021	
Room 6	9" x 9" Gray Floor Tile	6 ft^2	Repair	$54.00	July 2021	
Room 7	9" x 9" Gray Floor Tile	30 ft^2	Repair	$270.00	July 2021	
Room 9	9" x 9" Gray Floor Tile	30 ft^2	Repair	$270.00	July 2021	
Custodian Attic Area by Library	Pipe Fitting Insulation	2 Units	Repair	$200.00	July 2021	
Cafeteria and Rear Entrance Area	9" x 9" Brown Floor Tile	40 ft^2	Repair	$360.00	July 2021	
Room 12	9" x 9" Gray Floor Tile	10 ft^2	Repair	$90.00	July 2021	
Room 16	9" x 9" Gray Floor Tile	10 ft^2	Repair	$90.00	July 2021	
Room 17	9" x 9" Gray Floor Tile	4 ft^2	Repair	$36.00	July 2021	

Notes:
ft^2 = Square Foot
Unit = Each

* The estimated cost provided above is developed from current Abatement Contractor Unit pricing. These estimates will vary according to competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. In addition, the costs above do not include mobilization of the Abatement Contractor, Abatement Work Plan/Design, Project Monitoring and/or Clearance Testing Services for the completion of the response actions. Please refer for below unit pricing regarding costs for the Contractor Mobilization and Clearance Testing Services:

Abatement Work Plan/Design Specification = $500-$2,500.00
Abatement Contactor Mobilization = $1,500.00-$2,500.00

Project Monitoring/Clearance Testing = $520.00-$600.00/per shift
Transmission Electron Microcopy (TEM) Analysis = $75.00-$100.00/sample
Phase Contrast Microscopy (PCM) Analysis = No Charge -$15.00/sample
Clearance Report Preparation = $350.00-$800.00

**The estimated cost provided above does not include costs that may be associated with two-hour asbestos awareness training, OSHA 16-hr Operations and Maintenance Training, and/or the labor to conduct the required six-month surveillance re-inspections. Please refer below for estimated costs that may be associated with the mentioned above:

2-Hour Asbestos Awareness Training = $75/person
OSHA 16-hr Operations and Maintenance Training = $300/person
Six-Month Periodic Surveillance Inspection = $400/inspection

APPENDIX C

ESTIMATED RESOURCES REQUIRED FOR THE ABATEMENT OF THE IDENTIFIED ACBMs

Appendix C
AHERA Inspection May 2021
Estimated Costs for the Removal of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Estimated Cost
	First Floor		
Girls Bathroom by Room 1	Pipe Fitting Insulation (Above Ceiling)	13 Units	$325.00
Room 1	9" x 9" Gray Floor Tile	770 ft^2	$6,930.00
	Black Floor Tile Mastic	770 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 2	9" x 9" Gray Floor Tile	770 ft^2	$6,930.00
	Black Floor Tile Mastic	770 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 3	9" x 9" Gray Floor Tile	770 ft^2	$6,930.00
	Black Floor Tile Mastic	770 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 4	9" x 9" Gray Floor Tile	770 ft^2	$6,930.00
	Black Floor Tile Mastic	770 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 5	9" x 9" Gray Floor Tile	770 ft^2	$6,930.00
	Black Floor Tile Mastic	770 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 6	9" x 9" Gray Floor Tile	770 ft^2	$6,930.00
	Black Floor Tile Mastic	770 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00

Appendix C
AHERA Inspection May 2021
Estimated Costs for the Removal of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Estimated Cost
	First Floor		
Hall Between Rms 6 and 7	9" x 9" Green Floor Tile	256 ft^2	$2,304.00
	Black Floor Tile Mastic	256 ft^2	
Room 7	9" x 9" Gray Floor Tile	770 ft^2	$6,930.00
	Black Floor Tile Mastic	770 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 8	9" x 9" Gray Floor Tile	770 ft^2	$6,930.00
	Black Floor Tile Mastic	770 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 9	9" x 9" Gray Floor Tile	770 ft^2	$6,930.00
	Black Floor Tile Mastic	770 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Library	9" x 9" Gray Floor Tile (Under Carpet)	2880 ft^2	$25,920.00
	Black Floor Tile Mastic	2880 ft^2	$0.00
Custodian Attic Area by Library	Pipe Fitting Insulation	27 Units	$675.00
Kitchen	Ceramic Floor Tile Adhesive	1920 ft^2	$19,200.00
Kitchen Office Area	9" x 9" Gray Floor Tile	84 ft^2	$756.00
	Black Floor Tile Mastic	84 ft^2	
	Pipe Fitting Insulation	2 Units	$50.00
Kitchen Storage/Freezer Room	Pipe Fitting Insulation	17 Units	$425.00
General Storage	Pipe Fitting Insulation	15 Units	$375.00
Cafeteria and Rear Entrance Area	9" x 9" Brown Floor Tile	3000 ft^2	$27,000.00
	Black Floor Tile Mastic	3000 ft^2	

Appendix C
AHERA Inspection May 2021
Estimated Costs for the Removal of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Estimated Cost
	First Floor		
Lobby	9" x 9" Green Floor Tile (Painted Gray)	500 ft^2	$4,500.00
	Black Floor Tile Mastic	500 ft^2	
Room 21A-Nurse	9" x 9" Green Floor Tile (Painted Gray)	608 ft^2	$5,472.00
	Black Floor Tile Mastic	608 ft^2	
	Interior Window Glazing	16 lf	$160.00
Room 21B	9" x 9" Green Floor Tile (Painted Gray)	288 ft^2	$2,592.00
	Black Floor Tile Mastic	288 ft^2	
	Drywall	150 ft^2	$900.00
	Joint Compound	150 ft^2	
	Cementitious Panel below Window	24 ft^2	$240.00
Room 21C	9" x 9" Green Floor Tile (Painted Gray)	384 ft^2	$3,456.00
	Black Floor Tile Mastic	384 ft^2	
	Drywall	150 ft^2	$900.00
	Joint Compound	150 ft^2	
	Cementitious Panel below Window	48 ft^2	$480.00
Room 21C Closet	Pipe Fitting Insulation	2 Units	$50.00
Staff Room	9" x 9" Green Floor Tile (Painted Gray)	672 ft^2	$6,048.00
	Black Floor Tile Mastic	672 ft^2	
Faculty Men's Room	9" x 9" Green Floor Tile (Painted Gray)	30 ft^2	$270.00
	Black Floor Tile Mastic	30 ft^2	$0.00
Faculty Women's Room	9" x 9" Green Floor Tile (Painted Gray)	30 ft^2	$270.00
	Black Floor Tile Mastic	30 ft^2	
Faculty Room Closet	Pipe Fitting Insulation	3 Units	$75.00
	Black Floor Tile Mastic	30 ft^2	$270.00

Appendix C
AHERA Inspection May 2021
Estimated Costs for the Removal of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Estimated Cost
	First Floor		
Room 10	9" x 9" Gray Floor Tile	1026 ft^2	$9,234.00
	Black Floor Tile Mastic	1026 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	90 ft^2	$900.00
	Interior Window Glazing	20 lf	$200.00
Room 10 Closet	9" x 9" Gray Floor Tile	112 ft^2	$1,008.00
	Black Floor Tile Mastic	112 ft^2	$550.00
	Pipe Fitting Insulation	22 Units	$9,234.00
Room 11	9" x 9" Gray Floor Tile	1026 ft^2	
	Black Floor Tile Mastic	1026 ft^2	$50.00
	Pink Sink Mastic	1 Unit	$900.00
	Cementitious Panel below Window	90 ft^2	$9,234.00
Room 23	9" x 9" Gray Floor Tile	1026 ft^2	
	Black Floor Tile Mastic	1026 ft^2	$50.00
	Pink Sink Mastic	1 Unit	$900.00
	Cementitious Panel below Window	90 ft^2	$13,248.00
Main Hallway	9" x 9" Green Floor Tile (Painted Gray)	1472 ft^2	
	Black Floor Tile Mastic	1472 ft^2	$800.00
	Interior Window Glazing	80 lf	$400.00
Custodian/Gym Storage	Pipe Fitting Insulation	16 Units	$1,296.00
Boys Room by Room 12	Pipe Fitting Insulation	7 Units	$175.00
Girls Room by Room 12	Pipe Fitting Insulation	7 Units	$175.00
Gym	12" x 12" White Floor Tile	2500 ft^2	$22,500.00
	Black Floor Tile Mastic	2500 ft^2	

Appendix C
AHERA Inspection May 2021
Estimated Costs for the Removal of the Identified Asbestos-Containing Building Materials
Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	Estimated Cost
	First Floor		
Phys Ed. Office	9" x 9" Black Floor Tile	112 ft^2	$1,008.00
	Black Floor Tile Mastic	112 ft^2	
Room 12	9" x 9" Gray Floor Tile	900 ft^2	$8,100.00
	Black Floor Tile Mastic	900 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	72 ft^2	$720.00
Room 13	9" x 9" Gray Floor Tile	900 ft^2	$8,100.00
	Black Floor Tile Mastic	900 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Hall Between Rms 13 and 16	9" x 9" Green Floor Tile (Painted Gray)	184 ft^2	$1,656.00
	Black Floor Tile Mastic	184 ft^2	
	Interior Window Glazing	40 lf	$400.00
Room 16	9" x 9" Gray Floor Tile	900 ft^2	$8,100.00
	Black Floor Tile Mastic	900 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 17	9" x 9" Gray Floor Tile	900 ft^2	$8,100.00
	Black Floor Tile Mastic	900 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 18	9" x 9" Gray Floor Tile	900 ft^2	$8,100.00
	Black Floor Tile Mastic	900 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00

Appendix C AHERA Inspection May 2021 Estimated Costs for the Removal of the Identified Asbestos-Containing Building Materials Cushing Elementary School-One Aberdeen Drive			
Location	**ACBM Description**	**Estimated Quantity**	**Estimated Cost**
First Floor			
Room 19	9" x 9" Gray Floor Tile	900 ft^2	$8,100.00
	Black Floor Tile Mastic	900 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 20	9" x 9" Gray Floor Tile	900 ft^2	$8,100.00
	Black Floor Tile Mastic	900 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Hall Between Rms 20 and 21	9" x 9" Green Floor Tile (Painted Gray)	240 ft^2	$2,160.00
	Black Floor Tile Mastic	240 ft^2	
Room 21	9" x 9" Gray Floor Tile	900 ft^2	$8,100.00
	Black Floor Tile Mastic	900 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Room 22	9" x 9" Gray Floor Tile	900 ft^2	$8,100.00
	Black Floor Tile Mastic	900 ft^2	
	Pink Sink Mastic	1 Unit	$50.00
	Cementitious Panel below Window	42 ft^2	$420.00
Crawl Space off Boiler Room	Pipe Fitting Insulation	360 Units	$9,000.00

Notes:
ft^2 = Square Foot
lf = Linear Foot
Unit = Each

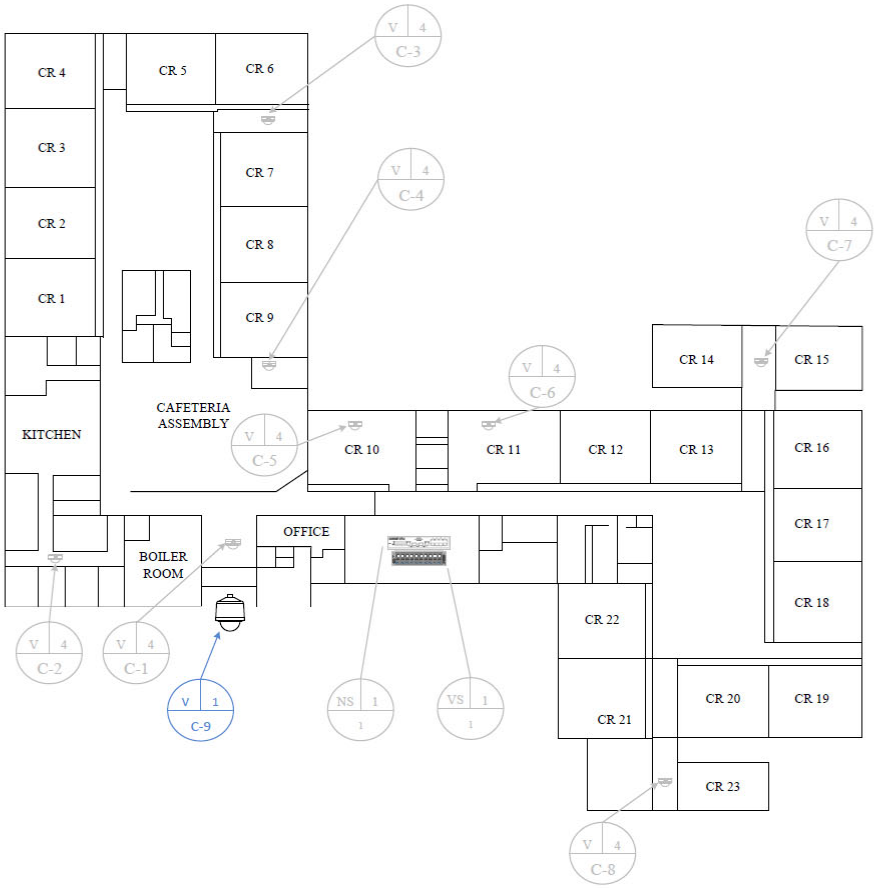
* The estimated cost provided above is developed from current Abatement Contractor Unit pricing. These estimates will vary according to competitive bidding, accessibility, location, and condition of ACMs, phasing of work, etc. The estimated cost for floor tile mastic removal is included within the total cost for the removal of the associated floor tile. In addition, the costs above do not include mobilization of the Abatement Contractor, Abatement Work Plan/Design, Project Monitoring and/or Clearance Testing Services for the completion of the response actions. Please refer for below unit pricing regarding costs for the Contractor Mobilization and Clearance Testing Services:

Abatement Work Plan/Design Specification = $500-$2,500.00
Abatement Contactor Mobilization = $1,500.00-$2,500.00
Project Monitoring/Clearance Testing = $520.00-$600.00/per shift
Transmission Electron Microcopy (TEM) Analysis = $75.00-$100.00/sample
Phase Contrast Microscopy (PCM) Analysis = No Charge -$15.00/sample
Clearance Report Preparation = $350.00-$800.00

APPENDIX D

SCHEMATIC

Cushing Elementary School
One Aberdeen Street
Scituate, MA



APPENDIX E

LABORATORY RESULTS

EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

http://www.EMSL.com / bostonlab@emsl.com

EMSL Order:	132102818
Customer ID:	VERT51
Customer PO:	
Project ID:	

Attention:	Jason Mohre	**Phone:**	(617) 939-3823
	The Vertex Companies, Inc.	**Fax:**	(781) 335-3543
	398 Libbey Parkway	**Received Date:**	04/20/2021 12:55 PM
	Weymouth, MA 02189	**Analysis Date:**	04/23/2021
		Collected Date:	04/20/2021

Project: 69699 - Scituate Public Schools; Cushing Elementary; 1 Aberdeen Drive

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-0420-01A *132102818-0001*	Cushing Elementary; 1st Floor; Main Hall - 1'X1' Ceiling Tile (Fissure)	Tan/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
B-0420-01B *132102818-0002*	Cushing Elementary; 1st Floor; Hall 20-21 - 1'X1' Ceiling Tile (Fissure)	Tan/White Fibrous Homogeneous	40% Cellulose 40% Min. Wool	20% Non-fibrous (Other)	None Detected
B-0420-02A *132102818-0003*	Cushing Elementary; 1st Floor; Hall 20-21 - Brown Glue Daubs	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-0420-02B *132102818-0004*	Cushing Elementary; 1st Floor; Hall 13-16 - Brown Glue Daubs	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-0420-02C *132102818-0005*	Cushing Elementary; 1st Floor; Storage 4-5 - Brown Glue Daubs	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Kevin Pine (5)

Steve Grise, Laboratory Manager
or Other Approved Signatory

Initial report from: 04/23/2021 15:09:36

OrderID: 132102818

VERTEX 132102818

Bulk Sampling Log Form

Project Name: SPS - Cushing Elementary (Aberdeen) Project #: 69699 Page: 1 of 1

Client: Seattle Public Schools Date: 4/20/21 Inspector: G. Mowe

Building	Floor	Room	Description	Field #	Comments	Fri / Non-Fri
Cushing Elementary	1	Main Hall	1'x1' Ceiling Tile (Cassure)	B-420-01A		-
		Hall 20-21		B-420-01B	x	-
			Brown Glue Dots	B-420-02A		-
		Hall 13-16		B-420-02B		-
		Storage 4-5		B-420-02C		-

Delivered By	Date	#Samples	Received By	Date	Time	# Samples
	4/20/21	5				

72-hr TAT

PLM Asbestos Bulk

Positive Stop

REC'D EMSL-BOSTON APR 20 2021 1255 W1

CLIENT: SCITUATE PUBLIC SCHOOLS
600 CHIEF JUSTICE CUSHING HIGHWAY
SCITUATE, MA 02066

LOCATION: CUSHING ELEMENTARY SCHOOL
ONE ABERDEEN DRIVE
SCITUATE, MASSACHUSETTS

PROJECT: 13.00298 - 391970
DATE RECEIVED: 08/19/13
ANALYZED: 08/20/13 TO 08/21/13
COLLECTED BY: COVINO
COLLECTED: 08/14/13 TO 08/16/13

ANALYTICAL RESULTS OF BULK SAMPLES

LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
391970	FIELD ID: 1A	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL: 6" PIPE FITTING INSULATION	Y	FIBROUS GLASS	20 %
	LOCATION: UNDERGROUND PIPE CHASE		CELLULOSE	25 %
			NONFIBROUS MATERIAL	55 %
391971	FIELD ID: 1B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" PIPE FITTING INSULATION	N	FIBROUS GLASS	45 %
	LOCATION: UNDERGROUND PIPE CHASE		NONFIBROUS MATERIAL	55 %
391972	FIELD ID: 1C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 6" PIPE FITTING INSULATION	N	FIBROUS GLASS	45 %
	LOCATION: UNDERGROUND PIPE CHASE		NONFIBROUS MATERIAL	55 %
391973	FIELD ID: 2A	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL: 1" PIPE FITTING INSULATION	Y	FIBROUS GLASS	30 %
	LOCATION: UNDERGROUND PIPE CHASE		CELLULOSE	15 %
			NONFIBROUS MATERIAL	55 %
391974	FIELD ID: 2B	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL: 1" PIPE FITTING INSULATION	Y	FIBROUS GLASS	30 %
	LOCATION: UNDERGROUND PIPE CHASE		CELLULOSE	15 %
			NONFIBROUS MATERIAL	55 %
391975	FIELD ID: 2C	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL: 1" PIPE FITTING INSULATION	Y	FIBROUS GLASS	35 %
	LOCATION: UNDERGROUND PIPE CHASE		CELLULOSE	10 %
			NONFIBROUS MATERIAL	55 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
391976	FIELD ID: 2D	GY	ASBESTOS - CHRYSOTILE	02 %
	MATERIAL: 1" PIPE FITTING INSULATION	N	FIBROUS GLASS	43 %
	LOCATION: BOILER STORAGE ROOM		NONFIBROUS MATERIAL	55 %
391977	FIELD ID: 2E	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 1" PIPE FITTING INSULATION	N/A		
	LOCATION: GIRLS' RESTROOM, ADJACENT ROOM 1			
391978	FIELD ID: 2F	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 1" PIPE FITTING INSULATION	N/A		
	LOCATION: CUSTODIAN ROOM, ATTIC, BY LIBRARY			
391979	FIELD ID: 2G	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 1" PIPE FITTING INSULATION	N/A		
	LOCATION: ROOM 10, CLOSET			
391980	FIELD ID: 3A	GY	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BOILER ROOM			
391981	FIELD ID: 3B	GY	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BOILER ROOM			
391982	FIELD ID: 3C	GY	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BOILER ROOM			
391983	FIELD ID: 3D	GY	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BOYS' ROOM, ADJACENT ROOM 12			
391984	FIELD ID: 3E	GY	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BOYS' ROOM, ADJACENT ROOM 12			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
391985	FIELD ID: 4A	WH/TN	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, SKIM COAT	Y	NONFIBROUS MATERIAL	100 %
	LOCATION: BOILER ROOM			
391986	FIELD ID: 4B	WH/TN	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, SKIM COAT	Y	NONFIBROUS MATERIAL	100 %
	LOCATION: BOILER ROOM			
391987	FIELD ID: 4C	WH/TN	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, SKIM COAT	Y	NONFIBROUS MATERIAL	100 %
	LOCATION: BOILER ROOM			
391988	FIELD ID: 4D	WH	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BOYS' ROOM, ADJACENT ROOM 12			
391989	FIELD ID: 4E	WH	NO ASBESTOS DETECTED	
	MATERIAL: ROUGH FINISH PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: BOYS' ROOM, ADJACENT ROOM 12			
391990	FIELD ID: 5A	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL: DUCT VIBRATION CLOTH	N	SYNTHETIC	90 %
	LOCATION: BOILER ROOM		NONFIBROUS MATERIAL	10 %
391991	FIELD ID: 5B	GY/TN	NO ASBESTOS DETECTED	
	MATERIAL: DUCT VIBRATION CLOTH	N	SYNTHETIC	90 %
	LOCATION: BOILER ROOM		NONFIBROUS MATERIAL	10 %
391992	FIELD ID: 6A	TN/WH	NO ASBESTOS DETECTED	
	MATERIAL: CANVAS COVERING ON BOILER BREECHING	Y	FIBROUS GLASS	90 %
	LOCATION: BOILER ROOM		NONFIBROUS MATERIAL	10 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
391993	FIELD ID: 6B	MU	NO ASBESTOS DETECTED	
	MATERIAL: CANVAS COVERING ON BOILER BREECHING	Y	FIBROUS GLASS	75 %
	LOCATION: BOILER ROOM		NONFIBROUS MATERIAL	25 %
391994	FIELD ID: 6C	MU	NO ASBESTOS DETECTED	
	MATERIAL: CANVAS COVERING ON BOILER BREECHING	Y	FIBROUS GLASS	75 %
	LOCATION: BOILER ROOM		NONFIBROUS MATERIAL	25 %
391995	FIELD ID: 7A	GY	NO ASBESTOS DETECTED	
	MATERIAL: SMOOTH FINISH PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: STORAGE ROOM, @ BOILER ROOM			
391996	FIELD ID: 7B	GY	NO ASBESTOS DETECTED	
	MATERIAL: SMOOTH FINISH PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: KITCHEN, SMALL STORAGE ROOM			
391997	FIELD ID: 7C	GY	NO ASBESTOS DETECTED	
	MATERIAL: SMOOTH FINISH PLASTER CEILING, BASE COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: KITCHEN, SMALL STORAGE ROOM			
391998	FIELD ID: 8A	WH	NO ASBESTOS DETECTED	
	MATERIAL: SMOOTH FINISH PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: KITCHEN, SMALL STORAGE ROOM			
391999	FIELD ID: 8B	WH	NO ASBESTOS DETECTED	
	MATERIAL: SMOOTH FINISH PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: STORAGE ROOM, @ BOILER ROOM			
392000	FIELD ID: 8C	WH	NO ASBESTOS DETECTED	
	MATERIAL: SMOOTH FINISH PLASTER CEILING, SKIM COAT	N	NONFIBROUS MATERIAL	100 %
	LOCATION: KITCHEN, SMALL STORAGE ROOM			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392001	FIELD ID: 9A	WH	ASBESTOS - CHRYSOTILE	30 %
	MATERIAL: ABANDONED GENERATOR EXHAUST PIPE INSULATION	N	ASBESTOS - AMOSITE	15 %
			NONFIBROUS MATERIAL	55 %
	LOCATION: HALL, BY GENERATOR ROOM			
392002	FIELD ID: 9B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: ABANDONED GENERATOR EXHAUST PIPE INSULATION	N/A		
	LOCATION: HALL, BY GENERATOR ROOM			
392003	FIELD ID: 9C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: ABANDONED GENERATOR EXHAUST PIPE INSULATION	N/A		
	LOCATION: KITCHEN, STORAGE ROOM			
392004	FIELD ID: 10A	TN/WH	NO ASBESTOS DETECTED	
	MATERIAL: TECTUM 4' X 8' CEILING PANELS	Y	CELLULOSE	80 %
	LOCATION: HALL, BY ELECTRIC ROOM		NONFIBROUS MATERIAL	20 %
392005	FIELD ID: 10B	TN/WH	NO ASBESTOS DETECTED	
	MATERIAL: TECTUM 4' X 8' CEILING PANELS	Y	CELLULOSE	80 %
	LOCATION: LIBRARY		NONFIBROUS MATERIAL	20 %
392006	FIELD ID: 10C	TN/WH	NO ASBESTOS DETECTED	
	MATERIAL: TECTUM 4' X 8' CEILING PANELS	Y	CELLULOSE	80 %
	LOCATION: ROOM 10		NONFIBROUS MATERIAL	20 %
392007	FIELD ID: 11A	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL: WALK-IN COOLERS, CEILING INSULATION	Y	SYNTHETIC	05 %
	LOCATION: KITCHEN, FREEZER		NONFIBROUS MATERIAL	95 %
392008	FIELD ID: 11B	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL: WALK-IN COOLERS, CEILING INSULATION	Y	SYNTHETIC	05 %
	LOCATION: KITCHEN, REFRIGERATOR		NONFIBROUS MATERIAL	95 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392009	FIELD ID: 12A	GY	NO ASBESTOS DETECTED	
	MATERIAL: WALK-IN COOLERS, WALL INSULATION	N	NONFIBROUS MATERIAL	100 %
	LOCATION: KITCHEN, FREEZER			
392010	FIELD ID: 12B	GY	NO ASBESTOS DETECTED	
	MATERIAL: WALK-IN COOLERS, WALL INSULATION	N	NONFIBROUS MATERIAL	100 %
	LOCATION: KITCHEN, REFRIGERATOR			
392011	FIELD ID: 13A	GY/WH	NO ASBESTOS DETECTED	
	MATERIAL: 1' X 1' PINHOLE SPLINE CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION: KITCHEN, HALLWAY		CELLULOSE	40 %
			NONFIBROUS MATERIAL	20 %
392012	FIELD ID: 13B	GY/WH	NO ASBESTOS DETECTED	
	MATERIAL: 1' X 1' PINHOLE SPLINE CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION: KITCHEN		CELLULOSE	40 %
			NONFIBROUS MATERIAL	20 %
392013	FIELD ID: 13C	GY/WH	NO ASBESTOS DETECTED	
	MATERIAL: 1' X 1' PINHOLE SPLINE CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION: KITCHEN		CELLULOSE	40 %
			NONFIBROUS MATERIAL	20 %
392014	FIELD ID: 14A	GY/WH	NO ASBESTOS DETECTED	
	MATERIAL: 1' X 1' FISSURED SPLINE CEILING TILE	N	FIBROUS GLASS	50 %
	LOCATION: KITCHEN, OFFICE		CELLULOSE	35 %
			NONFIBROUS MATERIAL	15 %
392015	FIELD ID: 14B	GY/WH	NO ASBESTOS DETECTED	
	MATERIAL: 1' X 1' FISSURED SPLINE CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION: ROOM 2A		CELLULOSE	45 %
			NONFIBROUS MATERIAL	15 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392016	FIELD ID: 14C	GY/WH	NO ASBESTOS DETECTED	
	MATERIAL: 1' X 1' FISSURED SPLINE CEILING TILE	N	FIBROUS GLASS	50 %
	LOCATION: GIRLS' ROOM, @ ROOM 12		CELLULOSE	35 %
			NONFIBROUS MATERIAL	15 %
392017	FIELD ID: 15A	GY	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: 9" X 9" GRAY FLOOR TILE	N	NONFIBROUS MATERIAL	88 %
	LOCATION: KITCHEN, OFFICE			
392018	FIELD ID: 15B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" GRAY FLOOR TILE	N/A		
	LOCATION: ROOM 1			
392019	FIELD ID: 15C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" GRAY FLOOR TILE	N/A		
	LOCATION: ROOM 8			
392020	FIELD ID: 16A	BK	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: 9" X 9" GRAY FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	88 %
	LOCATION: KITCHEN, OFFICE			
392021	FIELD ID: 16B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" GRAY FLOOR TILE MASTIC	N/A		
	LOCATION: ROOM 1			
392022	FIELD ID: 16C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" GRAY FLOOR TILE MASTIC	N/A		
	LOCATION: ROOM 8			
392023	FIELD ID: 17A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 4" WALL BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: KITCHEN, OFFICE			
392024	FIELD ID: 17B	BK	NO ASBESTOS DETECTED	
	MATERIAL: 4" WALL BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOM 8			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392025	FIELD ID: 17C	BK	NO ASBESTOS DETECTED	
	MATERIAL: 4" WALL BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOM 12			
392026	FIELD ID: 18A	BR	NO ASBESTOS DETECTED	
	MATERIAL: 4" WALL BASE ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: KITCHEN, OFFICE			
392027	FIELD ID: 18B	BR	NO ASBESTOS DETECTED	
	MATERIAL: 4" WALL BASE ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOM 8			
392028	FIELD ID: 18C	BR	NO ASBESTOS DETECTED	
	MATERIAL: 4" WALL BASE ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOM 12			
392029	FIELD ID: 19A	PI/WH	NO ASBESTOS DETECTED	
	MATERIAL: 2' X 4' FISSURED CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION: CAFETERIA		CELLULOSE	40 %
			NONFIBROUS MATERIAL	20 %
392030	FIELD ID: 19B	PI/WH	NO ASBESTOS DETECTED	
	MATERIAL: 2' X 4' FISSURED CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION: CAFETERIA		CELLULOSE	40 %
			NONFIBROUS MATERIAL	20 %
392031	FIELD ID: 19C	PI/WH	NO ASBESTOS DETECTED	
	MATERIAL: 2' X 4' FISSURED CEILING TILE	N	FIBROUS GLASS	40 %
	LOCATION: CAFETERIA		CELLULOSE	40 %
			NONFIBROUS MATERIAL	20 %
392032	FIELD ID: 20A	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ CAFETERIA			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392033	FIELD ID: 20B	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ CAFETERIA			
392034	FIELD ID: 20C	GY	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, BASE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ CAFETERIA			
392035	FIELD ID: 21A	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, SKIM	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ CAFETERIA			
392036	FIELD ID: 21B	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, SKIM	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ CAFETERIA			
392037	FIELD ID: 21C	WH	NO ASBESTOS DETECTED	
	MATERIAL: PLASTER WALL, SKIM	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ CAFETERIA			
392038	FIELD ID: 22A	TN	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: 9" X 9" BROWN FLOOR TILE	N	NONFIBROUS MATERIAL	90 %
	LOCATION: CAFETERIA			
392039	FIELD ID: 22B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" BROWN FLOOR TILE	N/A		
	LOCATION: ROOM 21A			
392040	FIELD ID: 22C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" BROWN FLOOR TILE	N/A		
	LOCATION: ROOM 21A			
392041	FIELD ID: 23A	BK	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: 9" X 9" BROWN FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	90 %
	LOCATION: CAFETERIA			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392042	FIELD ID: 23B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" BROWN FLOOR TILE MASTIC	N/A		
	LOCATION: ROOM 21A			
392043	FIELD ID: 23C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" BROWN FLOOR TILE MASTIC	N/A		
	LOCATION: ROOM 21A			
392044	FIELD ID: 24A	BK	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: 9" X 9" BLACK FLOOR TILE	N	NONFIBROUS MATERIAL	88 %
	LOCATION: ROOM 1			
392045	FIELD ID: 24B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" BLACK FLOOR TILE	N/A		
	LOCATION: ROOM 5			
392046	FIELD ID: 24C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" BLACK FLOOR TILE	N/A		
	LOCATION: ROOM 8			
392047	FIELD ID: 25A	BK	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: 9" X 9" BLACK FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	88 %
	LOCATION: ROOM 1			
392048	FIELD ID: 25B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" BLACK FLOOR TILE MASTIC	N/A		
	LOCATION: ROOM 5			
392049	FIELD ID: 25C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" BLACK FLOOR TILE MASTIC	N/A		
	LOCATION: ROOM 8			
392050	FIELD ID: 26A	YL	NO ASBESTOS DETECTED	
	MATERIAL: GOLD CARPET ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			
392051	FIELD ID: 26B	YL	NO ASBESTOS DETECTED	
	MATERIAL: GOLD CARPET ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392052	FIELD ID: 26C	YL	NO ASBESTOS DETECTED	
	MATERIAL: GOLD CARPET ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			
392053	FIELD ID: 27A	PI	ASBESTOS - CHRYSOTILE	12 %
	MATERIAL: PINK SINK COATING	N	NONFIBROUS MATERIAL	88 %
	LOCATION: ROOM 6			
392054	FIELD ID: 27B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: PINK SINK COATING	N/A		
	LOCATION: ROOM 7			
392055	FIELD ID: 27C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: PINK SINK COATING	N/A		
	LOCATION: ROOM 10			
392056	FIELD ID: 28A	TN/GY	NO ASBESTOS DETECTED	
	MATERIAL: TAN SHEET FLOORING	Y	CELLULOSE	25 %
	LOCATION: LIBRARY		SYNTHETIC	10 %
			NONFIBROUS MATERIAL	65 %
392057	FIELD ID: 28B	TN/GY	NO ASBESTOS DETECTED	
	MATERIAL: TAN SHEET FLOORING	Y	CELLULOSE	25 %
	LOCATION: LIBRARY		SYNTHETIC	10 %
			NONFIBROUS MATERIAL	65 %
392058	FIELD ID: 28C	TN/GY	NO ASBESTOS DETECTED	
	MATERIAL: TAN SHEET FLOORING	Y	CELLULOSE	25 %
	LOCATION: LIBRARY		SYNTHETIC	10 %
			NONFIBROUS MATERIAL	65 %
392059	FIELD ID: 29A	YL	NO ASBESTOS DETECTED	
	MATERIAL: TAN SHEET FLOORING ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392060	FIELD ID: 29B	YL	NO ASBESTOS DETECTED	
	MATERIAL: TAN SHEET FLOORING ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			
392061	FIELD ID: 29C	YL	NO ASBESTOS DETECTED	
	MATERIAL: TAN SHEET FLOORING ADHESIVE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: LIBRARY			
392062	FIELD ID: 30A	GN	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: 9" X 9" GREEN FLOOR TILE	N	NONFIBROUS MATERIAL	90 %
	LOCATION: LOBBY			
392063	FIELD ID: 30B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" GREEN FLOOR TILE	N/A		
	LOCATION: HALL, @ STAGE ENTRANCE			
392064	FIELD ID: 31A	BK	ASBESTOS - CHRYSOTILE	10 %
	MATERIAL: 9" X 9" GREEN FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	90 %
	LOCATION: LOBBY			
392065	FIELD ID: 31B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: 9" X 9" GREEN FLOOR TILE MASTIC	N/A		
	LOCATION: HALL, @ STAGE ENTRANCE			
392066	FIELD ID: 32A	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL: GYPSUM WALLBOARD	Y	FIBROUS GLASS	02 %
	LOCATION: 21B		CELLULOSE	15 %
			NONFIBROUS MATERIAL	83 %
392067	FIELD ID: 32B	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL: GYPSUM WALLBOARD	Y	FIBROUS GLASS	02 %
	LOCATION: 21B		CELLULOSE	15 %
			NONFIBROUS MATERIAL	83 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392068	FIELD ID: 32C MATERIAL: GYPSUM WALLBOARD LOCATION: 21C	GY/BR Y	NO ASBESTOS DETECTED FIBROUS GLASS CELLULOSE NONFIBROUS MATERIAL	 02 % 18 % 80 %
392069	FIELD ID: 33A MATERIAL: JOINT COMPOUND LOCATION: 21B	TN N	ASBESTOS - CHRYSOTILE NONFIBROUS MATERIAL	02 % 98 %
392070	FIELD ID: 33B MATERIAL: JOINT COMPOUND LOCATION: 21B	N/A N/A	SAMPLE NOT ANALYZED	
392071	FIELD ID: 33C MATERIAL: JOINT COMPOUND LOCATION: 21C	N/A N/A	SAMPLE NOT ANALYZED	
392072	FIELD ID: 34A MATERIAL: GRAY SINK BASIN COATING LOCATION: 21C	GY N	ASBESTOS - CHRYSOTILE NONFIBROUS MATERIAL	10 % 90 %
392073	FIELD ID: 34B MATERIAL: GRAY SINK BASIN COATING LOCATION: 21C	N/A N/A	SAMPLE NOT ANALYZED	
392074	FIELD ID: 35A MATERIAL: PERIMETER INTERIOR WINDOW GLAZING COMPOUND LOCATION: ROOM 10	MU Y	NO ASBESTOS DETECTED WOLLASTONITE NONFIBROUS MATERIAL	 05 % 95 %
392075	FIELD ID: 35B MATERIAL: PERIMETER INTERIOR WINDOW GLAZING COMPOUND LOCATION: ROOM 4	TN/WH N	NO ASBESTOS DETECTED NONFIBROUS MATERIAL	 100 %
392076	FIELD ID: 35C MATERIAL: PERIMETER INTERIOR WINDOW GLAZING COMPOUND LOCATION: ROOM 15	TN/WH N	NO ASBESTOS DETECTED NONFIBROUS MATERIAL	 100 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392077	FIELD ID: 36A	GY/BK	NO ASBESTOS DETECTED	
	MATERIAL: HALLWAY INTERIOR WINDOW GLAZING COMPOUND	Y	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOM 10			
392078	FIELD ID: 36B	GY/BK	NO ASBESTOS DETECTED	
	MATERIAL: HALLWAY INTERIOR WINDOW GLAZING COMPOUND	Y	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOM 11			
392079	FIELD ID: 36C	TN	ASBESTOS - CHRYSOTILE	02 %
	MATERIAL: HALLWAY INTERIOR WINDOW GLAZING COMPOUND	N	NONFIBROUS MATERIAL	98 %
	LOCATION: ROOM 21A			
392080	FIELD ID: 37A	GY/WH	ASBESTOS - CHRYSOTILE	40 %
	MATERIAL: CEMENTITIOUS WALL PANEL UNDER PERIMETER WINDOWS	N	NONFIBROUS MATERIAL	60 %
	LOCATION: FACULTY ROOM			
392081	FIELD ID: 37B	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: CEMENTITIOUS WALL PANEL UNDER PERIMETER WINDOWS	N/A		
	LOCATION: ROOM 11			
392082	FIELD ID: 37C	N/A	SAMPLE NOT ANALYZED	
	MATERIAL: CEMENTITIOUS WALL PANEL UNDER PERIMETER WINDOWS	N/A		
	LOCATION: ROOM 10			
392083	FIELD ID: 38A	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL: TRAILER GYPSUM 4' X 8' WALL PANEL	Y	FIBROUS GLASS	02 %
	LOCATION: HALL. @ ROOM 14		CELLULOSE	15 %
			NONFIBROUS MATERIAL	83 %
392084	FIELD ID: 38B	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL: TRAILER GYPSUM 4' X 8' WALL PANEL	Y	FIBROUS GLASS	02 %
	LOCATION: ROOM 15		CELLULOSE	15 %
			NONFIBROUS MATERIAL	83 %

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392085	FIELD ID: 38C	WH/BR	NO ASBESTOS DETECTED	
	MATERIAL: TRAILER GYPSUM 4' X 8' WALL PANEL	Y	FIBROUS GLASS	02 %
	LOCATION: HALL, @ ROOM 23		CELLULOSE	15 %
			NONFIBROUS MATERIAL	83 %
392086	FIELD ID: 39A	TN	NO ASBESTOS DETECTED	
	MATERIAL: SEAM SEALANT ON TRAILER GYPSUM PANELS	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 14			
392087	FIELD ID: 39B	TN	NO ASBESTOS DETECTED	
	MATERIAL: SEAM SEALANT ON TRAILER GYPSUM PANELS	N	NONFIBROUS MATERIAL	100 %
	LOCATION: ROOM 15			
392088	FIELD ID: 39C	TN	NO ASBESTOS DETECTED	
	MATERIAL: SEAM SEALANT ON TRAILER GYPSUM PANELS	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 23			
392089	FIELD ID: 40A	WH	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE W/BLUE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL @ ROOM 14			
392090	FIELD ID: 40B	WH	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE W/BLUE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL CONNECTOR			
392091	FIELD ID: 40C	WH	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE W/BLUE FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL @ ROOM 16			
392092	FIELD ID: 41A	YL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE W/BLUE FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL @ ROOM 14			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392093	FIELD ID: 41B	YL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE W/BLUE FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL CONNECTOR			
392094	FIELD ID: 41C	YL	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" WHITE W/BLUE FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL @ ROOM 16			
392095	FIELD ID: 42A	GY	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ 16			
392096	FIELD ID: 42B	GY	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 16			
392097	FIELD ID: 42C	GY	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY FLOOR TILE	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 16			
392098	FIELD ID: 43A	BK	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 16			
392099	FIELD ID: 43B	BK	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 16			
392100	FIELD ID: 43C	BK	NO ASBESTOS DETECTED	
	MATERIAL: 12" X 12" GRAY FLOOR TILE MASTIC	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 16			
392101	FIELD ID: 44A	BR	NO ASBESTOS DETECTED	
	MATERIAL: GLUE DAUB ASSOC. W/METAL CEILING ACCESS PANEL	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 16			

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LAB ID	SAMPLE DESCRIPTION	COLOR LAYERED	ANALYTICAL RESULTS	
392102	FIELD ID: 44B	BR	NO ASBESTOS DETECTED	
	MATERIAL: GLUE DAUB ASSOC. W/METAL CEILING ACCESS PANEL	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 16			
392103	FIELD ID: 44C	BR	NO ASBESTOS DETECTED	
	MATERIAL: GLUE DAUB ASSOC. W/METAL CEILING ACCESS PANEL	N	NONFIBROUS MATERIAL	100 %
	LOCATION: HALL, @ ROOM 16			

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PROJECT: 13.00298 - 391970 RECEIVED: 08/19/13 CLIENT: SCITUATE PUBLIC SCHOOLS

NOTES: N/A=NOT APPLICABLE

COLOR CODES:												
	BG	BEIGE	BR	BROWN	GY	GRAY	OR	ORANGE	RD	RED	WH	WHITE
	BK	BLACK	CL	CLEAR	MU	MULTI	PI	PINK	SI	SILVER	YL	YELLOW
	BL	BLUE	GN	GREEN	N/A	NONE	PR	PURPLE	TN	TAN	MA	MAROON

LABORATORY CERTIFICATIONS: MA #AA000006 RI #AAL-025C3 VT #AL017034 ME #LB-061
CT #PH-0248

ACCREDITATION: NVLAP #101781-0

DATE OF ISSUE: 09/03/13 APPROVED SIGNATORY: KEVIN T. MCKENZIE, LABORATORY MANAGER

THESE SAMPLES WERE ANALYZED BY POLARIZED LIGHT MICROSCOPY WITH DISPERSION STAINING (PLM/DS) ACCORDING TO THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (US EPA) "INTERIM METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK INSULATION SAMPLES" (EPA-600/M4-82-020) AND "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS" (EPA-600/R93/116). THIS METHOD IS CONSIDERED SENSITIVE TO THE PRESENCE OF ASBESTOS AT LESS THAN ONE PERCENT. THIS REPORT RELATES ONLY TO THOSE SAMPLES ANALYZED, AND MAY NOT BE INDICATIVE OF OTHER SIMILAR APPEARING MATERIALS EXISTING AT THIS, OR OTHER SITES.

FLOOR TILES AND RESINOUSLY BOUND MATERIALS ANALYZED BY EPA METHOD 600/R93/116, "METHOD FOR THE DETERMINATION OF ASBESTOS IN BULK BUILDING MATERIALS," MAY YIELD FALSE NEGATIVE RESULTS DUE TO DIFFICULTIES IN ISOLATING SUSPECT FIBERS AND SUBSEQUENTLY IDENTIFYING THEM BENEATH THE MATRIX MATERIAL WHICH ENCAPSULATES THEM. SHEARING DURING THE MANUFACTURE OF VINYL TILE DECREASES THE FIBER SIZE OF THE ASBESTOS COMPONENT; THEREFORE, THE FIBERS MAY NOT BE READILY DETECTABLE USING POLARIZED LIGHT MICROSCOPY. AS A RESULT, LABORATORY ANALYSIS CANNOT ALWAYS BE ACCOMPLISHED USING STANDARD TECHNIQUES. WHEN THE EPA METHOD YIELDS A "NO ASBESTOS DETECTED" RESULT FOR FLOOR TILES AND RESINOUSLY BOUND MATERIALS, COVINO ENVIRONMENTAL ASSOCIATES RECOMMENDS FURTHER ANALYSIS USING SEM OR TEM TECHNIQUES FOR THE IDENTIFICATION OF ASBESTOS.

THE EPA REQUIRES THAT FRIABLE SAMPLES WITH ASBESTOS CONTENTS OF LESS THAN 10%, DETERMINED BY A VISUAL ESTIMATION, BE VERIFIED USING THE POINT COUNTING TECHNIQUE OR OTHERWISE BE ASSUMED TO CONTAIN GREATER THAN 1% ASBESTOS BY THE BUILDING OWNER OR OPERATOR. IF ANALYTICAL RESULTS INDICATE THE PRESENCE OF 1% OR LESS ASBESTOS IN A FRIABLE MATERIAL, THAT MATERIAL MUST BE TREATED AS ASBESTOS-CONTAINING MATERIAL UNLESS THESE QUANTITIES ARE VERIFIED USING THE POINT COUNTING TECHNIQUE. FRIABLE SAMPLES WILL BE POINT-COUNTED UPON REQUEST BY THE CLIENT. POINT COUNTING IS NOT REQUIRED FOR THOSE SAMPLES IN WHICH NO ASBESTOS IS DETECTED DURING ANALYSIS BY PLM.

LAYERED SAMPLES ARE ANALYZED IN THE FOLLOWING MANNER: ALL LAYERS ARE ANALYZED SEPARATELY, AND QUANTITIES ARE REPORTED AS A PERCENTAGE OF THE ENTIRE COMPOSITE SAMPLE.

ALL SAMPLES ARE STORED AT THE COVINO LABORATORY FOR A PERIOD OF THREE MONTHS. FURTHER ANALYSIS OR RETURN OF SAMPLES MUST BE REQUESTED WITHIN THIS THREE-MONTH PERIOD TO GUARANTEE THEIR AVAILABILITY.

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Asbestos Bulk Chain of Custody

* STOP @ 1ST POSITIVE

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

Client: Scituate Public Schools
600 Chief Justice Cushing Highway
Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive
Scituate, MA

Turnaround (circle) same day 24-hr (standard (5 day))
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID / Field ID # / Lab ID #	DESCRIPTION	Stereoscopic Visual: Color	%Asb	Text	Homog	Optical Properties: Morph	Extin	SignE	Bire	Pleo	Other	Fiber Ref. Ind.: ⊥	∥	%Asbestos Fiber Present: CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	% Non Asbestos Present: Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
1A / 391970	MATERIAL: 6" PIPE FITTING INSULATION LOCATION: UNDERGROUND PIPE CHASE	GY/TN	20	L	N															20 ISO	25 II INC				55
1B / 391971	MATERIAL: 6" PIPE FITTING INSULATION LOCATION: UNDERGROUND PIPE CHASE	GY	20	FY																45 ISO					55
1C / 391972	MATERIAL: 6" PIPE FITTING INSULATION LOCATION: UNDERGROUND PIPE CHASE	GY	20	FY																45 ISO					55
2A / 391973	MATERIAL: 1" PIPE FITTING INSULATION LOCATION: UNDERGROUND PIPE CHASE	GY/TN	20	L	N															30 ISO	15 II INC				55
2B / 391974	MATERIAL: 1" PIPE FITTING INSULATION LOCATION: UNDERGROUND PIPE CHASE	GY/TN	20	L	N															30 ISO	15 II INC				55
2C / 391975	MATERIAL: 1" PIPE FITTING INSULATION LOCATION: UNDERGROUND PIPE CHASE	GY/TN	20	L	N															35 ISO	10 II INC				55

Relinquished by: KEN ROBERTS Date: 8/17/2013 Received by: KR Date: AUG 19 2013

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Rev. 3/28/08

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Asbestos Bulk Chain of Custody

SK Stop @ 1st Positive

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

Client: Scituate Public Schools
600 Chief Justice Cushing Highway
Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive
Scituate, MA

Turnaround (circle) same day 24-hr standard (5 day)
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID / Field ID # / Lab ID #	DESCRIPTION	Stereoscopic Visual: Color	% Asb	Text	Homog	Optical Properties: Morph	Extinct	Sign E	Birefr	Pleo	Other	Fiber Ref. Ind.: ⊥	∥	%Asbestos Fiber Present: CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	% Non Asbestos Present: Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
2D / 391976	MATERIAL: 1" Pipe Fitting Insulation LOCATION: Boiler Storage Rm	Gy	2	F	Y	W	II	+	L	N		1916	1963	2						43 150					55
2E / 391977	MATERIAL: 1" Pipe Fitting Insulation LOCATION: Girls Rest Room Adjacent Rm 1																				NOT	ANALYZED			
2F / 391978	MATERIAL: 1" Pipe Fitting Insulation LOCATION: Custodian Rm Attic by Library																				NOT	ANALYZED			
2G / 391979	MATERIAL: 1" Pipe Fitting Insulation LOCATION: Rm 10 Closet																				NOT	ANALYZED			
3A / 391980	MATERIAL: Rough Finish Plaster Ceiling – Base Coat LOCATION: Boiler Rm	Gy	ND	F	Y																				100
3B / 391981	MATERIAL: Rough Finish Plaster Ceiling – Base Coat LOCATION: Boiler Rm	Gy	ND	F	Y																				100

Relinquished by: Ken Roberts Date: 8/17/2013 Received by: RB Date: AUG 19 2013

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Asbestos Bulk Chain of Custody

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

Client: Scituate Public Schools
600 Chief Justice Cushing Highway
Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive
Scituate, MA

Turnaround (circle) same day 24-hr (standard (5 day))
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID / Field ID # / Lab ID #	DESCRIPTION	Stereoscopic Visual: Color	% Asb	Text	Homog	Optical Properties: Morph	Extinction	Sign E	Birefringence	Pleochroism	Other	Fiber Ref. Ind. ⊥	Fiber Ref. Ind. ∥	%Asbestos Fiber Present: CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	% Non Asbestos Present: Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
3C / 371982	MATERIAL: ROUGH FINISH PLASTER CEILING – BASE COAT LOCATION: BOILER RM	GY	ND	F	Y																				100
3D / 371983	MATERIAL: ROUGH FINISH PLASTER CEILING – BASE COAT LOCATION: BOY'S RM ADJACENT RM 12	GY	ND	F	Y																				100
3E / 371984	MATERIAL: ROUGH FINISH PLASTER CEILING – BASE COAT LOCATION: BOY'S RM ADJACENT RM 12	GY	ND	F	Y																				100
4A / 371985	MATERIAL: ROUGH FINISH PLASTER CEILING – SKIM COAT LOCATION: BOILER RM	WHT	ND	L	N																				100
4B / 371986	MATERIAL: ROUGH FINISH PLASTER CEILING – SKIM COAT LOCATION: BOILER RM	WHT	ND	L	N																				100
4C / 371987	MATERIAL: ROUGH FINISH PLASTER CEILING – SKIM COAT LOCATION: BOILER RM	WHT	ND	L	N																				100

Relinquished by: KEN ROBERTS Date: 8/17/2013 Received by: Date: AUG 19 2013

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Rev. 3/28/08

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Phone 781.933.2555 Fax 781.932.9402 Email: mail@covinoinc.com

Asbestos Bulk Chain of Custody

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

Client: Scituate Public Schools
600 Chief Justice Cushing Highway
Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive
Scituate, MA

Turnaround (circle) same day 24-hr (standard (5 day))
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID	DO NOT WRITE IN SHADED AREAS	Stereoscopic Visual				Optical Properties						Fiber Ref. Ind.		%Asbestos Fiber Present						% Non Asbestos Present					
Field ID # / Lab ID #	DESCRIPTION	Color	%Asb	Text	Homog	Morph	Extn	Sigue	Bire	Pleo	Other	⊥	∥	CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
4D / 391985	MATERIAL: ROUGH FINISH PLASTER CEILING - SKIM COAT LOCATION: BOY'S RM ADJACENT RM 12	WH	20	F	Y																				100
4E / 391989	MATERIAL: ROUGH FINISH PLASTER CEILING - SKIM COAT LOCATION: BOY'S RM ADJACENT RM 12	WH	20	F	Y																				100
5A / 391996	MATERIAL: DUCT VIBRATION CLOTH LOCATION: BOILER RM	GY/TN	20	NF	Y																		90 HIGH BI		10
5B / 391991	MATERIAL: DUCT VIBRATION CLOTH LOCATION: BOILER RM	GY/TN	20	NF	Y																		90 HIGH BI		10
6A / 391992	MATERIAL: CANVASS COVERING ON BOILER BREECHING LOCATION: BOILER RM	TN/WH	20	L	N															90 ISO					10
6B / 391993	MATERIAL: CANVASS COVERING ON BOILER BREECHING LOCATION: BOILER RM	TN/WH	20	L	N															75 ISO					25

Relinquished by: KEN ROBERTS / [signature] Date: 8/17/2013 Received by: RTS Date: AUG 19 2013

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Asbestos Bulk Chain of Custody

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

Client: Scituate Public Schools
600 Chief Justice Cushing Highway
Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive
Scituate, MA

Turnaround (circle) same day 24-hr (standard (5 day))
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID	DO NOT WRITE IN SHADED AREAS	Stereoscopic Visual				Optical Properties						Fiber Ref. Ind.		%Asbestos Fiber Present						% Non Asbestos Present					
Field ID # / Lab ID #	DESCRIPTION	Color	%Asb	Text	Homog	Morph	Extin	Sign E	Bire	Pleo	Other	⊥	∥	CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
6C / 391994	MATERIAL: CANVASS COVERING ON BOILER BREECHING LOCATION: BOILER RM	MULTI	2D	L	N															75 ISO					25
7A / 391995	MATERIAL: SMOOTH FINISH PLASTER CEILING – BASE COAT LOCATION: STORAGE RM @ BOILER RM	GY	2D	2F	Y																				100
7B / 391996	MATERIAL: SMOOTH FINISH PLASTER CEILING – BASE COAT LOCATION: KITCHEN - SMALL STORAGE RM	GY	2D	2F	Y																				100
7C / 391997	MATERIAL: SMOOTH FINISH PLASTER CEILING - BASE COAT LOCATION: KITCHEN - SMALL STORAGE RM	GY	2D	2F	Y																				100
8A / 391998	MATERIAL: SMOOTH FINISH PLASTER CEILING - SKIM COAT LOCATION: KITCHEN - SMALL STORAGE RM	WH	2D	2F	Y																				100
8B / 391999	MATERIAL: SMOOTH FINISH PLASTER CEILING - SKIM COAT LOCATION: STORAGE RM @ BOILER RM	WH	2D	2F	Y																				100

Relinquished by: KEN ROBERTS Date: 8/17/2013 Received by: Date: AUG 19 2013

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Asbestos Bulk Chain of Custody

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

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600 Chief Justice Cushing Highway
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Project Name and Location: Cushing Elementary, One Aberdeen Drive
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Sample ID	DO NOT WRITE IN SHADED AREAS	Stereoscopic Visual				Optical Properties						Fiber Ref. Ind.		%Asbestos Fiber Present						% Non Asbestos Present					
Field ID # / Lab ID #	DESCRIPTION	Color	%Asb	Text	Homog	Morph	Extn	SignE	Bire	Pleo	Other	⊥	∥	CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
EC 372000	MATERIAL: SMOOTH FINISH PLASTER CEILING - SKIM COAT LOCATION: KITCHEN - SMALL STORAGE RM.	W/H	20	FF	Y																				100
9A 372001	MATERIAL: ABANDONED GENERATOR EXHAUST PIPE INSULATION LOCATION: HALL BY GENERATOR RM	W/H	45	F	Y	W S	II II	+ +	L M	N N		1546 1670	K553 1701	30	15										55
9B 372002	MATERIAL: ABANDONED GENERATOR EXHAUST PIPE INSULATION LOCATION: HALL BY GENERATOR RM																				NOT ANALYZED				
9C 372003	MATERIAL: ABANDONED GENERATOR EXHAUST PIPE INSULATION LOCATION: KITCHEN STORAGE RM.																				NOT ANALYZED				
10A 372004	MATERIAL: TECTUM 4'x8' CEILING PANELS LOCATION: HALL BY ELECTRIC RM	TN/WH	20	L	N																80 II NC				20
10B 372005	MATERIAL: TECTUM 4'x8' CEILING PANELS LOCATION: LIBRARY	TN/WH	20	L	N																80 II NC				20

Relinquished by: KEN ROBERTS Date: 8/17/2013 Received by: RG Date: AUG 19 2013

Accept ___ Reject ___ Comments ___ Analyst's Signature ___ Date(s) Analyzed: 8-20-13 Temp: 23.5c

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Phone 781.933.2555 Fax 781.932.9402 Email: mail@covinoinc.com

Asbestos Bulk Chain of Custody

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

Client: Scituate Public Schools
600 Chief Justice Cushing Highway
Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive Scituate, MA

Turnaround (circle) same day 24-hr (standard (5 day))
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID / Field ID # / Lab ID #	DESCRIPTION	Stereoscopic Visual: Color	% Asb	Text	Homog	Optical Properties: Morph	Extinct	Sign E	Birefr	Pleo	Other	Fiber Ref. Ind.: I	II	%Asbestos Fiber Present: CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	% Non Asbestos Present: Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
10 C 372006	MATERIAL: TECTUM 4'X8' CEILING PANELS LOCATION: RM 10	T/WH	ND	L	N																80 & INC				20
11 A 372007	MATERIAL: WALK-IN-COOLERS CEILING INSULATION LOCATION: KITCHEN FREEZER	WH/BR	20	L	N																		5 HIGH EI		95
11 B 372008	MATERIAL: WALK-IN-COOLERS CEILING INSULATION LOCATION: KITCHEN- REFRIGERATOR	WH/BR	20	L	N																		5 HIGH EI		95
12 A 372009	MATERIAL: WALK-IN-COOLERS WALL INSULATION LOCATION: KITCHEN - FREEZER	GY	20	F	Y																				100
12 B 372010	MATERIAL: WALK-IN-COLERS - WALL INSULATION LOCATION: KITCHEN - REFRIGERATOR	GY	20	F	Y																				100
13 A 372011	MATERIAL: 1'x1' PINHOLE SPLINE CEILING TILE LOCATION: KITCHEN HALLWAY	GY/WH	20	F	Y																40 ISO	40 & INC				20

Relinquished by: KEN ROBERTS Date: 8/17/2013 Received by: RB Date: AUG 19 2013

Accept ___ Reject ___ Comments ___ Analyst's Signature ___ Date(s) Analyzed: 8-20-13 Temp: 23.5c

Rev. 3/28/08

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13B / 397012	MATERIAL: 1'x1' PINHOLE SPLINE CEILING TILE LOCATION: KITCHEN	GY/WH	ND	F	Y															40 ISO	40 K INC				20
13C / 397013	MATERIAL: 1'x1' PINHOLE SPLINE CEILING TILE LOCATION: KITCHEN	GY/WH	ND	F	Y															40 ISO	40 K INC				20
14A / 397014	MATERIAL: 1'x1' FISSURED SPLINE CEILING TILE LOCATION: KITCHEN OFFICE	GY/WH	ND	F	Y															50 ISO	35 II INC				15
14B / 397015	MATERIAL: 1'x1' FISSURED SPLINE CEILING TILE LOCATION: Rm 2A	GY/WH	ND	F	Y															40 ISO	45 II INC				15
14C / 397016	MATERIAL: 1'x1' FISSURED SPLINE CEILING TILE LOCATION: GIRL'S RM @ RM 12	GY/WH	ND	F	Y															50 ISO	35 K INC				15
15A / 397017	MATERIAL: 9"x9" GRAY FLOR TILE LOCATION: KITCHEN OFFICE	GY	12	NF	Y	W	II	+	L	N		1546	1653	12											88

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Field ID # / Lab ID #	DESCRIPTION	Color	%Asb	Text	Homog	Morph	Extin	Sign E	Birefr	Pleo	Other	⊥	∥	CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
15 B / 392018	MATERIAL: 9"x9" GRAY FLOOR TILE LOCATION: Rm 1																				NOT ANALYZED				
15 C / 392019	MATERIAL: 9"x9" GRAY FLOOR TILE LOCATION: Rm 8																				NOT ANALYZED				
16 A / 392020	MATERIAL: 9"x9" GRAY FLOOR TILE MASTIC LOCATION: KITCHEN OFFICE	BK	12	NF	Y	W	H	+	L	N		1516	1553	12											88
16 B / 392021	MATERIAL: 9"x9" GRAY FLOOR TILE MASTIC LOCATION: Rm 7																				NOT ANALYZED				
16 C / 392022	MATERIAL: 9"x9" GRAY FLOOR TILE MASTIC LOCATION: Rm 8																				NOT ANALYZED				
17 A / 392023	MATERIAL: 4" WALLBASE LOCATION: KITCHEN OFFICE	GY	ND	NF	Y																				100

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Asbestos Bulk Chain of Custody

Covino Project No. 13.00298
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Field ID # / Lab ID #	DESCRIPTION	Color	%Asb	Text	Homog	Morph	Extin	Sign E	Bire	Pleo	Other	⊥	∥	CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
17B / 397024	MATERIAL: 4" WALLBASE LOCATION: RM 8	BK	NA	NF	Y																				100
17C / 397025	MATERIAL: 4" WALLBASE LOCATION: RM 12	BK	ND	NP	Y																				100
18A / 397026	MATERIAL: 4" WALLBASE ADHESIVE LOCATION: KITCHEN OFFICE	BR	NA	NF	Y																				100
18B / 397027	MATERIAL: 4" WALLBASE ADHESIVE LOCATION: RM 8	BR	ND	NF	Y																				100
18C / 397028	MATERIAL: 4" WALLBASE ADHESIVE LOCATION: RM 12	BR	NA	NF	Y																				100
19A / 397029	MATERIAL: 2'x4' FISSURED CEILING TILE LOCATION: CAFETERIA	PK WH	NA	NF	Y															40 TR	40 II INC				20

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19B / 372030	MATERIAL: 2'x4' FISSURED CEILING TILE LOCATION: CAFETERIA	PK/WH	ND	F	Y															40 ISO	40 II INC				20
19C / 372031	MATERIAL: 2'x4' FISSURED CEILING TILE LOCATION: CAFETERIA	PK/WH	ND	F	Y															40 ISO	40 II INC				20
20A / 372032	MATERIAL: PLASTER WALL - BASE LOCATION: HALL @ CAFETERIA	GY	ND	F	Y																				100
20B / 372033	MATERIAL: PLASTER WALL - BASE LOCATION: HALL @ CAFETERIA	GY	ND	F	Y																				100
20C / 372034	MATERIAL: PLASTER WALL - BASE LOCATION: HALL @ CAFETERIA	GY	ND	F	Y																				100
21A / 372035	MATERIAL: PLASTER WALL - SKIM LOCATION: HALL @ CAFETERIA	WH	ND	F	Y																				100

Relinquished by: KEN ROBERTS **Date:** 8/17/2013 **Received by:** RG **Date:** AUG 19 2013

Accept ___ **Reject** ___ **Comments** _____ **Analyst's Signature** _____ **Date(s) Analyzed:** 8-21-13 **Temp:** 23.5

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Field ID # / Lab ID #	DESCRIPTION	Color	%Asb	Text	Homog	Morph	Extin	Sign E	Bire	Pleo	Other	⊥	∥	CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
21B / 397036	MATERIAL: PLASTER WALL - SKIM LOCATION: HALL @ CAFETERIA	WH	20	NF	Y																				100
21C / 397037	MATERIAL: PLASTER WALL - SKIM LOCATION: HALL @ CAFETERIA	WH	20	NF	Y																				100
22A / 397038	MATERIAL: 9"x9" BROWN FLOOR TILE LOCATION: CAFETERIA	TN	10	NF	Y	W	11	+	L	N		1546	1653	10											90
22B / 397039	MATERIAL: 9"x9" BROWN FLOOR TILE LOCATION: RM 21A																				NOT	ANALYZED			
22C / 397040	MATERIAL: 9"x9" BROWN FLOOR TILE LOCATION: RM 21A																				NOT	ANALYZED			
23A / 397041	MATERIAL: 9"x9" BROWN FLOOR TILE MASTIC LOCATION: CAFETERIA	BK	10	NF	Y	W	11	+	L	N		1547	1653	10											90

Relinquished by: KEN ROBERTS / Ken Roberts Date: 8/17/2013 Received by: RH Date: AUG 19 2013

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Asbestos Bulk Chain of Custody

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Contact: Glenn Potter – 781.706.7317
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Sample ID / Field ID # / Lab ID #	DESCRIPTION	Stereoscopic Visual: Color	% Asb	Text	Homog	Optical Properties: Morph	Extin	Sign E	Birre	Pleo	Other	Fiber Ref. Ind.: ⊥	II	%Asbestos Fiber Present: CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	% Non Asbestos Present: Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
23B / 392042	MATERIAL: 9"x9" BROWN FLOOR TILE MASTIC LOCATION: Rm 21 A																				NOT ANALYZED				
23C / 392043	MATERIAL: 9"x9" BROWN FLOOR TILE MASTIC LOCATION: Rm 21 A																				NOT ANALYZED				
24A / 392044	MATERIAL: 9"x9" BLACK FLOOR TILE MASTIC (KR) LOCATION: Rm 21 (KR)	BK	12	NF	Y	W	II	+	L	N		1546	1553	12											88
24B / 392045	MATERIAL: 9"x9" BLACK FLOOR TILE LOCATION: Rm 5																				NOT ANALYZED				
24C / 392046	MATERIAL: 9"x9" BLACK FLOOR TILE LOCATION: Rm 8																				NOT ANALYZED				
25A / 392047	MATERIAL: 9"x9" BLACK FLOOR TILE MASTIC LOCATION: Rm 1	BK	12	NF	Y	W	II	+	L	N		1546	1553	12											88

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25B / 372048	MATERIAL: 9"x9" BLACK FLOOR TILE MASTIC LOCATION: Rm 5																				NOT ANALYZED				
25C / 372049	MATERIAL: 9"x9" BLACK FLOOR TILE MASTIC LOCATION: Rm 8																				NOT ANALYZED				
26A / 372050	MATERIAL: GOLD CARPET ADHESIVE LOCATION: LIBRARY	YL	ND	NF	Y																				100
26B / 372051	MATERIAL: GOLD CARPET ADHESIVE LOCATION: LIBRARY	YL	ND	NF	Y																				100
26C / 372052	MATERIAL: GOLD CARPET ADHESIVE LOCATION: LIBRARY	YL	ND	NF	Y																				100
27A / 372053	MATERIAL: PINK SINK COATING LOCATION: Rm 6	PK	12	F	Y	W	11	+	L	N		1.517	1.553	12											88

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Field ID # / Lab ID #	DESCRIPTION	Color	%Asb	Text	Homog	Morph	Extn	Sign E	Bire	Pleo	Other	⊥	∥	CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
27 B / 372054	MATERIAL: PINK SINK COATING LOCATION: RM 7																				NOT ANALYZED				
27 C / 372055	MATERIAL: PINK SINK COATING LOCATION: RM 10																				NOT ANALYZED				
28 A / 372056	MATERIAL: TAN SHEET FLOORING LOCATION: LIBRARY	TN/GY	20	L	N																25 II INC		10 HIGH BI		65
28 B / 372057	MATERIAL: TAN SHEET FLOORING LOCATION: LIBRARY	TN/GY	20	L	N																25 II INC		10 HIGH BI		65
28 C / 372058	MATERIAL: TAN SHEET FLOORING LOCATION: LIBRARY	TN/GY	20	L	N																25 II INC		10 HIGH BI		65
29 A / 372059	MATERIAL: TAN SHEET FLOORING ADHESIVE LOCATION: LIBRARY	TN	20	TR	Y																				100

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29 B / 312060	MATERIAL: TAN SHEET FLOORING ADHESIVE LOCATION: LIBRARY	Y/L	2A	2F	Y																				100
29 C / 312061	MATERIAL: TAN SHEET FLOORING ADHESIVE LOCATION: LIBRARY	Y/L	2A	2F	Y																				100
30 A / 312062	MATERIAL: 9"x9" GREEN FLOOR TILE LOCATION: LOBBY	G2	10	2F	Y	W	II	+	L	N		1516	1533	10											90
30 B / 312063	MATERIAL: 9"x9" GREEN FLOOR TILE LOCATION: HALL @ STAGE ENTRANCE																				NOT	ANALYZED			
31 A / 312064	MATERIAL: 9"x9" GREEN FLOOR TILE MASTIC LOCATION: LOBBY	BK	10	2F	Y	W	II	+	L	N		1516	1591	10											90
31 B / 312065	MATERIAL: 9"x9" GREEN FLOOR TILE MASTIC LOCATION: HALL @ STAGE ENTRANCE																				NOT	ANALYZED			

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32A / 392066	MATERIAL: GYPSUM WALLBOARD LOCATION: 2 1 B	WH/BR	2ND		LN															2 ISO	15 II INC				83
32B / 392067	MATERIAL: GYPSUM WALLBOARD LOCATION: 2 1 B	WH/BR	2ND		LN															2 ISO	15 II INC				83
32C / 392068	MATERIAL: GYPSUM WALLBOARD LOCATION: 2 1 C	GY/BR	2ND		LN															2 ISO	18 II INC				80
33A / 392069	MATERIAL: JOINT COMPOUND LOCATION: 2 1 B	TN	2	FY		W	II	+	L	N		1546	1553	2											98
33B / 392070	MATERIAL: JOINT COMPOUND LOCATION: 2 1 B																				NOT	ANALYZED			
33C / 392071	MATERIAL: JOINT COMPOUND LOCATION: 2 1 C																				NOT	ANALYZED			

Relinquished by: KEN ROBERTS **Date:** 8/17/2013 **Received by:** RB **Date:** AUG 19 2013

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34 A / 392072	MATERIAL: GRAY SINK BASIN COATING LOCATION: 21 C	GY	10	F	Y	W	II	+	L	N		1917	1655	10											90
34 B / 392073	MATERIAL: GRAY SINK BASIN COATING LOCATION: 21 C																				NOT	ANALYZED			
35 A / 392074	MATERIAL: PERIMETER INTERIOR WINDOW GLAZING COMPOUND LOCATION: Rm 10	BG/T	2D	L	N																			5 wollastonite +/- CLOVER	95
35 B / 392075	MATERIAL: PERIMETER INTERIOR WINDOW GLAZING COMPOUND LOCATION: Rm 4	T/BK	2D	NL	Y																				100
35 C / 392076	MATERIAL: PERIMETER INTERIOR WINDOW GLAZING COMPOUND LOCATION: Rm 15	T/BK	2D	NL	Y																				100
36 A / 392077	MATERIAL: HALLWAY INTERIOR WINDOW GLAZING COMPOUND LOCATION: Rm 10	GY/BK	2D	L	N																				100

Relinquished by: KEN ROBERTS Date: 8/17/2013 Received by: RR Date: AUG 19 2013

Accept ___ Reject ___ Comments ___ Analyst's Signature ___ Date(s) Analyzed: 8-21-13 Temp: 23.5C

Rev. 3/28/08

Covino Environmental Associates, Inc.
300 Wildwood Ave, Woburn, MA
Phone 781.933.2555 Fax 781.932.9402 Email: mail@covinoinc.com

Asbestos Bulk Chain of Custody

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

Client: Scituate Public Schools
600 Chief Justice Cushing Highway
Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive
Scituate, MA

Turnaround (circle) same day 24-hr (standard (5 day))
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID / Field ID # / Lab ID #	DESCRIPTION	Stereoscopic Visual: Color	% Asb	Text	Homog	Optical Properties: Morph	Extin	Signe	Birefr	Pleo	Other	Fiber Ref. Ind. ⊥	Fiber Ref. Ind. ∥	%Asbestos Fiber Present: CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	% Non Asbestos Present: Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
36B / 392076	MATERIAL: HALLWAY INTERIOR WINDOW GLAZING COMPOUND LOCATION: RM 11	GY/BK	ND	L	N																				100
36C / 392079	MATERIAL: HALLWAY INTERIOR WINDOW GLAZING COMPOUND LOCATION: RM 214	TN	2	NF	Y	W	II	+	L	N		1516	1553	2											98
37A / 392080	MATERIAL: CEMENTIOUS WALL PANEL UNDER PERIMETER WINDOWS LOCATION: FACULTY RM	GY/WH	40	NF	Y	W	II	+	L	N		1516	1553	40											60
37B / 392081	MATERIAL: CEMENTIOUS WALL PANELS UNDER PERIMETER WINDOWS LOCATION: RM 11																				NOT	ANALYZED			
37C / 392082	MATERIAL: CEMENTIOUS WALL PANELS UNDER PERIMETER WINDOWS LOCATION: RM 10																				NOT	ANALYZED			
38A / 392083	MATERIAL: TRAILER GYPSUM 4'x8' WALL PANEL LOCATION: HALL @ RM 14	WH/BR	ND	L	N															2 (1-10)	15 (1-10 INC)				83

Relinquished by: KEN ROBERTS **Date:** 8/17/2013 **Received by:** RS **Date:** AUG 19 2013

Accept ___ **Reject** ___ **Comments** _____ **Analyst's Signature** _____ **Date(s) Analyzed:** 8-21-13 **Temp:** 23.5c

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Asbestos Bulk Chain of Custody

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Client: Scituate Public Schools
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Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive
Scituate, MA

Turnaround (circle) same day 24-hr (standard (5 day))
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID / Field ID # / Lab ID #	DO NOT WRITE IN SHADED AREAS — DESCRIPTION	Stereoscopic Visual: Color	% Asb	Text	Hom g	Optical Properties: Morph	Extin	Sign E	Bire	Pleo	Other	Fiber Ref. Ind.: ⊥	∥	%Asbestos Fiber Present: CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	% Non Asbestos Present: Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
38B / 392084	MATERIAL: TRAILER 4'x8' GYPSUM WALL PANELS LOCATION: Rm 15	W+BR	20	L	N															2 ISO	15 H INC				83
38C / 392085	MATERIAL: TRAILER 4'x8' GYPSUM WALL PANELS LOCATION: HALL @ Rm 23	W+BR	20	L	N															2 ISO	15 H INC				83
39A / 392086	MATERIAL: SEAM SEALANT ON TRAILER GYPSUM PANELS LOCATION: HALL @ Rm 14	T	20	NF	Y																				100
39B / 392087	MATERIAL: SEAM SEALANT ON TRAILER GYPSUM PANELS LOCATION: Rm 15	T	20	NF	Y																				100
39C / 392088	MATERIAL: SEAM SEALANT ON TRAILER GYPSUM PANELS LOCATION: HALL @ Rm 23	T	20	NF	Y																				100
40A / 392089	MATERIAL: 12"x12" WHITE w/ BLUE FLOOR TILE LOCATION: HALL @ Rm 14	W+	20	NF	Y																				100

Relinquished by: KEN ROBERTS Date: 8/17/2013 Received by: RP Date: AUG 19 2013

Accept ___ Reject ___ Comments ___ Analyst's Signature ___ Date(s) Analyzed: 8-21-13 Temp: 23.5c

Rev. 3/28/08

Covino Environmental Associates, Inc.
300 Wildwood Ave, Woburn, MA
Phone 781.933.2555 Fax 781.932.9402 Email: mail@covinoinc.com

Asbestos Bulk Chain of Custody

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

Client: Scituate Public Schools
600 Chief Justice Cushing Highway
Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive
Scituate, MA

Turnaround (circle) same day 24-hr (standard (5 day))
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID / Field ID # / Lab ID #	DO NOT WRITE IN SHADED AREAS — DESCRIPTION	Stereoscopic Visual: Color	% Asb	Text	Homog	Optical Properties: Morph	Extn	Sign E	Birefr	Pleo	Other	Fiber Ref. Ind. ⊥	Fiber Ref. Ind. ∥	%Asbestos Fiber Present: CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	% Non Asbestos Present: Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
40 B / 372090	MATERIAL: 12"x12" WHITE w/ BLUE FLOOR TILE LOCATION: HALL CONNECTOR	WH	ND	2F	Y																				100
40 C / 372091	MATERIAL: 12"x12" WHITE w/ BLUE FLOOR TILE LOCATION: HALL @ Rm 16	WH	ND	2F	Y																				100
41 A / 372092	MATERIAL: 12"x12" WHITE w/ BLUE FLOOR TILE MASTIC LOCATION: HALL @ Rm 14	YL	ND	2F	Y																				100
41 B / 372093	MATERIAL: 12"x12" WHITE w/ BLUE FLOOR TILE MASTIC LOCATION: HALL CONNECTOR	YL	ND	2F	Y																				100
41 C / 372094	MATERIAL: 12"x12" WHITE w/ BLUE FLOOR TILE MASTIC LOCATION: HALL @ Rm 16	YL	ND	2F	Y																				100
42 A / 372095	MATERIAL: 12"x12" GRAY FLOOR TILE LOCATION: HALL @ 16	GY	ND	2F	Y																				100

Relinquished by: KEN ROBERTS / [signature] **Date:** 8/17/2013 **Received by:** RP **Date:** AUG 19 2013

Accept ___ **Reject** ___ **Comments** _____ **Analyst's Signature** [signature] **Date(s) Analyzed:** 8-21-13 **Temp:** 23.5C

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Asbestos Bulk Chain of Custody

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

Client: Scituate Public Schools
600 Chief Justice Cushing Highway
Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive
Scituate, MA

Turnaround (circle) same day 24-hr (standard (5 day))
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID	DO NOT WRITE IN SHADED AREAS	Stereoscopic Visual				Optical Properties						Fiber Ref. Ind.		%Asbestos Fiber Present						% Non Asbestos Present					
Field ID # / Lab ID #	DESCRIPTION	Color	%Asb	Text	Homog	Morph	Extn	SigE	Bire	Pleo	Other	⊥	∥	CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
42B / 392096	MATERIAL: 12"x12" GRAY FLOOR TILE LOCATION: HALL @ RM 16	GY	ND	NF	Y																				100
42C / 392097	MATERIAL: 12"x12" GRAY FLOOR TILE LOCATION: HALL @ RM 16	GY	ND	NF	Y																				100
43A / 392098	MATERIAL: 12"x12" GRAY FLOOR TILE MASTIC LOCATION: HALL @ RM 16	BK	ND	NF	Y																				100
43B / 392099	MATERIAL: 12"x12" GRAY FLOOR TILE MASTIC LOCATION: HALL @ RM 16	BK	ND	NF	Y																				100
43C / 392100	MATERIAL: 12"x12" GRAY FLOOR TILE MASTIC LOCATION: HALL @ RM 16	BK	ND	NF	Y																				100
44A / 392101	MATERIAL: GLUE DAUB ASSOC. W/ METAL CEILING ACCESS PANEL LOCATION: HALL @ RM 16	BR	ND	NF	Y																				100

Relinquished by: KEN ROBERTS **Date:** 8/17/2013 **Received by:** RR **Date:** AUG 19 2013

Accept ___ **Reject** ___ **Comments** ___ **Analyst's Signature** ___ **Date(s) Analyzed:** 8-21-13 **Temp:** 23.5c

Rev. 3/28/08

Covino Environmental Associates, Inc.
300 Wildwood Ave, Woburn, MA
Phone 781.933.2555 Fax 781.932.9402 Email: mail@covinoinc.com

Asbestos Bulk Chain of Custody

Covino Project No. 13.00298
Samples Collected by: Ken Roberts
License No: AI-000317
Date(s) Collected: 8/14 AND 8/16/2013

Client: Scituate Public Schools
600 Chief Justice Cushing Highway
Scituate, MA 02066

Project Name and Location: Cushing Elementary, One Aberdeen Drive
Scituate, MA

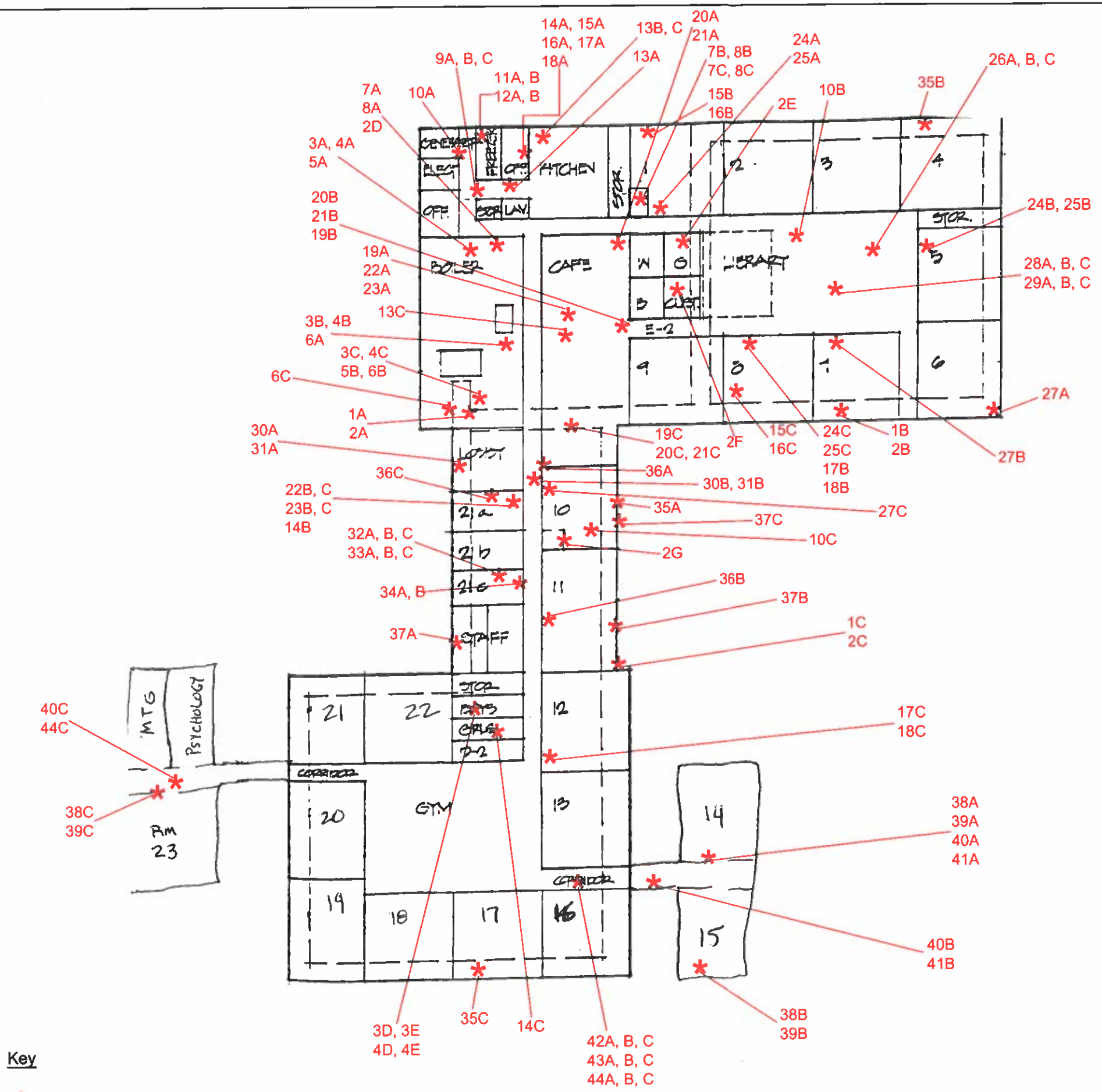
Turnaround (circle) same day 24-hr (standard (5 day))
Contact: Glenn Potter – 781.706.7317
Email: gpotter@covinoinc.com

Sample ID / Field ID # / Lab ID #	DESCRIPTION	Stereoscopic Visual: Color	% Asb	Texture	Homog	Optical Properties: Morph	Extinction	Sign E	Birefringence	Pleochroism	Other	Fiber Ref. Ind.: ⊥	∥	%Asbestos Fiber Present: CHRYS	AMOS	CROCI	TREMO	ANTHO	ACTIN	% Non Asbestos Present: Fibrous Glass	Cellulose	Hair	Synthetic	Other	Non Fibrous
44B / 392102	MATERIAL: GLUE DAUB ASSOC. W/ METAL CEILING ACCESS PANEL LOCATION: HALL @ RM 16	BR	2D	2F	Y																				100
44C / 392103	MATERIAL: GLUE DAUB ASSOC. W/ METAL CEILING ACCESS PANEL LOCATION: HALL @ RM 16	BR	2D	2F	Y																				100
	MATERIAL: LOCATION:																								
	MATERIAL: LOCATION:																								
	MATERIAL: LOCATION:																								
	MATERIAL: LOCATION:																								

Relinquished by: KEN ROBERTS / [signature] **Date:** 8/17/2013 **Received by:** [signature] **Date:** AUG 19 2013

Accept___ **Reject**___ **Comments**_____ **Analyst's Signature** [signature] **Date(s) Analyzed:** 8-21-13 **Temp:** 23.5C

Rev. 3/28/08



Key

* Asbestos bulk sample location

covino ENVIRONMENTAL ASSOCIATES INC

300 Wildwood Avenue
Woburn, MA 01801
Tel: 781.933.2555
Fax 781.932.9402
email: mail@covinoinc.com

Covino Project 13.00298

Client:
Scituate Public Schools
606 Chief Justice Cushing Highway
Scituate, Massachusetts

Site:
Cushing Elementary School
1 Aberdeen Drive
Scituate, Massachusetts

Approximate Asbestos Bulk Sample Locations

August 14 & 16, 2013

Floor 1

NOT TO SCALE

Date: 11.11.13 | Edited by: ALM

APPENDIX F

PERSONNEL CERTIFICATIONS

THE VERTEX COMPANIES, INC.

ACCREDITATION PAGE

Accredited Inspector

Name: Jason Mohre

Accreditation Number: AI000262

Signature: _____

Date: 5/11/2021

Accredited Management Planner

Name: Jason Mohre

Accreditation Number: AP000080

Signature: _____

Date: 5/11/21

APPENDIX G

SUPPLEMENTAL FORMS

CONTACT INFORMATION

Local Education Agency and School Information

Local Education Agency: Scituate Public Schools	Telephone Number: 781-545-8749
Address: 606 Chief Justice Cushing Hwy Scituate, MA	
Name of School: Cushing Elementary School	Telephone Number: 781-545-8770
Address: One Aberdeen Drive Scituate, MA	County: Plymouth County

Designated Person Information

Name of Designated Person: Robert Dillon	Telephone Number: 781-545-8749
Address: 606 Chief Justice Cushing Hwy Scituate, MA	

Course Name:	Training Agency:	Date:	Hours of Training:

Management Planner(s) The following management planner(s) has developed/contributed to this plan and is accredited under the state accreditation program or another state's accreditation program or an EPA-approved course.

Name: Jason Mohre	Telephone Number: 781-952-6000
Firm: The Vertex Companies, Inc.	
Address: 400 Libbey Parkway, Weymouth, Massachusetts 02189	
State of Accreditation/Accreditation Number: MA/AP00080	

Course Name: Asbestos Management Planner	Date: 1/28/10	Training Agency: Institute for Environmental Education
		Telephone Number: 800-823-6239

SCHOOL BUILDING LIST

Name of Building	Address	Construction Date(s)	Friable ACBM*	Non-Friable ACBM	Friable and Non-Friable Suspected ACBM Assumed to be ACM**	No ACBM
Wampatuck Elementary School	266 Tilden Road	1960	X	X	X	
Cushing Elementary School	One Aberdeen Drive	1963	X	X	X	
Hatherly Elementary School	72 Ann Vinal Road	1963	X	X	X	
Scituate High School	606 Chief Justice Cushing Highway	1967	X	X		
Jenkins Elementary School	49 Vinal Road	2003				x
Gates Middle School	606 Chief Justice Cushing Highway	2019	X	X		

*ACBM -Asbestos-Containing Building Material
**ACM -Asbestos-Containing Material

DATE: _____May 7, 2021

DESIGNATED PERSON ASSURANCES

In accordance with 40 CFR ' 763.93(i) of the Environmental Protection Agency Asbestos-Containing Material in Schools regulation, the undersigned Local Education Agency (LEA) Designated Person (DP) hereby certifies that the following general responsibilities of the LEA under 40 CFR ' 763.84 have been or will be met:

1.Ensure that the activities of any persons who perform inspections, reinspections, and periodic surveillance, develop and update management plans, and develop and implement response actions, including operations and maintenance, are carried out in accordance with Part 763, Subpart E.

2. Ensure that all custodial and maintenance employees are properly trained as required by Part 763, Subpart E and other applicable Federal and/or State regulations (e.g., the Occupational Safety and Health Administration asbestos standard for construction, the EPA worker protection rule, or applicable State regulations).

3. Ensure that workers and building occupants, or their legal guardians, are informed at least once each school year about inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress.

4. Ensure that short-term workers (e.g., telephone repair workers, utility workers, or exterminators) who may come in contact with asbestos in a school are provided information regarding the locations for Asbestos-Containing Building Materials (ACBM) and suspected ACBM assumed to be Asbestos-Containing Materials (ACM).

5. Ensure that warning labels are posted in accordance with ' 40 CFR 763.95.

6. Ensure that management plans are available for inspection and notification of such availability has been provided as specified in the management plan under ' 40 CFR 763.93(g).

7. Designate a person to ensure that requirements under ' 763.84 are properly implemented and ensure that the designated person receives adequate training to perform duties assigned under ' 763.84. Such training shall provide, as necessary, basic knowledge of: health effects of asbestos; detection, identification, and assessment of ACM; options for controlling ACBM; asbestos management programs; relevant Federal and State regulations concerning asbestos, including those in Part 763, Subpart E and those of the Occupational Safety and Health Administration, U.S. Department of Transportation and the U.S. Environmental Protection Agency.

8. Consider whether any conflict of interest may arise from the inter-relationship among accredited personnel and whether that should influence the selection of accredited personnel to perform activities under Part 763, Subpart E.

Name of Designated Person:

Designated Person's Signature: **Date:**

EVALUATION OF RESOURCES **DATE: 5/7/2021**

1. **Estimated Resources to Complete the Response Actions $ 2,500.00**
2. **Estimated Resources to Conduct Re-Inspection $ 1,500.00**
3. **Estimated Resources to Complete Operations and Maintenance Activities $ 500.00**
4. **Estimated Resources to Conduct 6-Month Periodic Surveillance $ 400.00**
5. **Estimated Resources to Conduct Training for Custodial Staff**
   a. **LEA-Designated Person Training $ 250.00**
   b. **16-Hour Operations and Maintenance Training (per Worker) $ 295.00**
   c. **2-Hour Awareness Training (per Worker) $ 75.00**

PLAN FOR OPERATIONS AND MAINTENANCE ACTIVITIES

LEA Name: Scituate Public Schools

School Name: Cushing Elementary School

Attach or outline the plan here:

OSHA® FactSheet

Protecting Workers from the Hazards of Asbestos-Containing Flooring Material Maintenance

Many resilient flooring tiles contain asbestos, a mineral fiber used in numerous building materials before its dangerous health effects were discovered. A hazard exists for workers who buff or wax flooring material containing asbestos. Any floor tiles installed prior to 1980 should be presumed to contain asbestos — unless confirmed to be asbestos-free by a laboratory — and the proper protective actions should be taken. The Occupational Safety and Health Administration (OSHA) has regulations to protect workers from asbestos.

What is the hazard?

The equipment used during the care or maintenance of asbestos-containing flooring tiles has an abrasive pad which runs at high speeds, and can release tiny asbestos fibers into the air.

The airborne fibers can then be inhaled by workers without knowing it, and become trapped in their lungs.

Asbestos is a known human carcinogen and can cause chronic lung disease as well as lung and other cancers.

How do I know if there is a hazard?

Airborne asbestos fibers are very small and cannot be seen by the naked eye.

Flooring materials installed prior to 1980 should be presumed to contain asbestos and should be treated as such, unless a piece of the material is sent to a reputable laboratory and analyzed for asbestos by transmission electron microscopy and found to contain a concentration of less than 1.0%.

What should be done to protect workers?

Workers caring for asbestos-containing flooring material (general industry) are protected by OSHA's Asbestos standard, 29 Code of Federal Regulations (CFR) Part 1910.1001. OSHA has separate asbestos standards for the construction and shipyard industries due to differing working conditions and asbestos exposures.

Training elements of OSHA's Asbestos Standard

Initial and annual training must be provided in a manner and language that workers can understand. The training must include: health effects of asbestos; locations of asbestos-containing and presumed asbestos-containing materials; recognition of damage and deterioration of asbestos-containing materials; and the proper response to fiber release episodes. The following elements should be included in this training:

Care of Asbestos-Containing Flooring Materials

- Do not sand asbestos-containing flooring material;
- Use only low-abrasion buffing pads;
- Operate buffers only at speeds lower than 300 rpm;
- Use wet methods;
- If asbestos-containing flooring material has sufficient finish, brushing or dry buffing is permissible.

If these methods are properly implemented, personal protective equipment (PPE) should not be necessary.

Recordkeeping

A record of training and worker notification is necessary. If applicable, any exposure monitoring records and medical monitoring records must also be kept.

OPERATIONS AND MAINTENANCE ACTIVITIES

LEA Name: Scituate Public Schools

School Name: Cushing Elementary School

Building Assessed/Address: _____.

Room/Functional Space: _____.

Provide the description of the activity, including preventative measures used, and the location where the activity occurred for those operation and maintenance activities specified under 40 CFR 763.91(d) and under 40 CFR 763.94(g), for any major asbestos activity conducted under
40CFR763.91(e):_____
_____
_____
_____
_____.

Provide the start and completion dates of the activity:_____.

Provide the name of each person performing the activity and for a major asbestos activity, provide the name, signature, state of accreditation and, if applicable, the accreditation number of each person performing the activity:
_____
_____
_____
_____
_____.

If ACBM is removed, provide the name and location of the storage or disposal site of the ACM:

_____
_____.

CLEANING RECORD

LEA Name: Scituate Public Schools

School Name: Hatherly Elementary School

Cleaning: (check one) [ ] Cleaning after initial inspection [ ] Additional cleaning approved by LEA under O&M Plan.

Date of Cleaning:_____.

Location of Cleaning:_____.

Cleaning Methods Used :_____.

Provide the name of each person performing the cleaning

_____

_____.

MAJOR/MINOR FIBER RELEASE EPISODE

LEA Name: Scituate Public Schools

School Name: Cushing Elementary School

Type of Episode: (check one) [ ] Major Fiber Release [ ] Minor Fiber release.

Date of episode: _____.

Provide the description of the fiber release episode, including the location, type of ACBM, method of repair, and preventative measure or response action taken:

_____
_____
_____
_____
_____.

Provide the names of each person performing the work:

_____
_____
_____.

If ACBM is removed, provide the name and location of the storage or disposal site of the ACM_____
_____
_____.

PERIODIC SURVEILLANCE

AHERA Six-Month Surveillance Inspection Date:_____

(Print Name):_____

Signature:_____

Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	April 2021 Cond.	Oct. 2021 Cond.	April 2022 Cond.	Oct. 2022 Cond.	April 2023 Cond.	Oct. 2023 Cond.
First Floor								
Girls Bathroom by Room 1	Pipe Fitting Insulation (Above Ceiling)	13 Units	U					
Room 1	9" x 9" Gray Floor Tile	770 ft^2	MD (30 ft^2)					
	Black Floor Tile Mastic	770 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 2	9" x 9" Gray Floor Tile	770 ft^2	MD (20 ft^2)					
	Black Floor Tile Mastic	770 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 3	9" x 9" Gray Floor Tile	770 ft^2	MD (16 ft^2)					
	Black Floor Tile Mastic	770 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 4	9" x 9" Gray Floor Tile	770 ft^2	MD (10 ft^2)					
	Black Floor Tile Mastic	770 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 5	9" x 9" Gray Floor Tile	770 ft^2	MD (2 ft^2)					
	Black Floor Tile Mastic	770 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 6	9" x 9" Gray Floor Tile	770 ft^2	MD (6 ft^2)					
	Black Floor Tile Mastic	770 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					

AHERA Six-Month Surveillance Inspection Date:_____

(Print Name):_____

Signature:_____

Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	April 2021 Cond.	Oct. 2021 Cond.	April 2022 Cond.	Oct. 2022 Cond.	April 2023 Cond.	Oct. 2023 Cond.
		First Floor						
Hall Between Rms 6 and 7	9" x 9" Green Floor Tile	256 ft^2	G					
	Black Floor Tile Mastic	256 ft^2	C					
Room 7	9" x 9" Gray Floor Tile	770 ft^2	MD (30 ft^2)					
	Black Floor Tile Mastic	770 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 8	9" x 9" Gray Floor Tile	770 ft^2	G					
	Black Floor Tile Mastic	770 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 9	9" x 9" Gray Floor Tile	770 ft^2	MD (30 ft^2)					
	Black Floor Tile Mastic	770 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Library	9" x 9" Gray Floor Tile (Under Carpet)	2880 ft^2	C					
	Black Floor Tile Mastic	2880 ft^2	C					
Custodian Attic Area by Library	Pipe Fitting Insulation	27 Units	MD (2)					
Kitchen	Ceramic Floor Tile Adhesive	1920 ft^2	C					
Kitchen Office Area	9" x 9" Gray Floor Tile	84 ft^2	G					
	Black Floor Tile Mastic	84 ft^2	C					
	Pipe Fitting Insulation	2 Units	G					
Kitchen Storage/Freezer Room	Pipe Fitting Insulation	17 Units	G					
General Storage	Pipe Fitting Insulation	15 Units	G					
Cafeteria and Rear Entrance Area	9" x 9" Brown Floor Tile	3000 ft^2	MD (40 ft^2)					
	Black Floor Tile Mastic	3000 ft^2	C					

AHERA Six-Month Surveillance Inspection Date:_____

(Print Name):_____

Signature:_____

Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	April 2021 Cond.	Oct. 2021 Cond.	April 2022 Cond.	Oct. 2022 Cond.	April 2023 Cond.	Oct. 2023 Cond.
		First Floor						
Lobby	9" x 9" Green Floor Tile (Painted Gray)	500 ft^2	G					
	Black Floor Tile Mastic	500 ft^2	C					
Room 21A-Nurse	9" x 9" Green Floor Tile (Painted Gray)	608 ft^2	G					
	Black Floor Tile Mastic	608 ft^2	C					
	Interior Window Glazing	16 lf	G					
Room 21B	9" x 9" Green Floor Tile (Painted Gray)	288 ft^2	G					
	Black Floor Tile Mastic	288 ft^2	C					
	Drywall	150 ft^2	G					
	Joint Compound	150 ft^2	G					
	Cementitious Panel below Window	24 ft^2	G					
Room 21C	9" x 9" Green Floor Tile (Painted Gray)	384 ft^2	G					
	Black Floor Tile Mastic	384 ft^2	C					
	Drywall	150 ft^2	G					
	Joint Compound	150 ft^2	G					
	Cementitious Panel below Window	48 ft^2	G					
Room 21C Closet	Pipe Fitting Insulation	2 Units	NF					
Staff Room	9" x 9" Green Floor Tile (Painted Gray)	672 ft^2	G					
	Black Floor Tile Mastic	672 ft^2	C					
Faculty Men's Room	9" x 9" Green Floor Tile (Painted Gray)	30 ft^2	G					
	Black Floor Tile Mastic	30 ft^2	C					
Faculty Women's Room	9" x 9" Green Floor Tile (Painted Gray)	30 ft^2	G					
	Black Floor Tile Mastic	30 ft^2	C					
Faculty Room Closet	Pipe Fitting Insulation	3 Units	G					
	Black Floor Tile Mastic	1 Unit	G					

AHERA Six-Month Surveillance Inspection Date:_____

(Print Name):_____

Signature:_____

Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	April 2021 Cond.	Oct. 2021 Cond.	April 2022 Cond.	Oct. 2022 Cond.	April 2023 Cond.	Oct. 2023 Cond.
First Floor								
Room 10	9" x 9" Gray Floor Tile	1026 ft^2	G					
	Black Floor Tile Mastic	1026 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	90 ft^2	G					
	Interior Window Glazing	20 lf	G					
Room 10 Closet	9" x 9" Gray Floor Tile	112 ft^2	G					
	Black Floor Tile Mastic	112 ft^2	G					
	Pipe Fitting Insulation	22 Units	G					
Room 11	9" x 9" Gray Floor Tile	1026 ft^2	G					
	Black Floor Tile Mastic	1026 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	90 ft^2	G					
Room 23	9" x 9" Gray Floor Tile	1026 ft^2	G					
	Black Floor Tile Mastic	1026 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	90 ft^2	G					
Main Hallway	9" x 9" Green Floor Tile (Painted Gray)	1472 ft^2	G					
	Black Floor Tile Mastic	1472 ft^2	C					
	Interior Window Glazing	80 lf	G					
Custodian/Gym Storage	Pipe Fitting Insulation	16 Units	G					
Boys Room by Room 12	Pipe Fitting Insulation	7 Units	C					
Girls Room by Room 12	Pipe Fitting Insulation	7 Units	U					
Gym	12" x 12" White Floor Tile	2500 ft^2	G					
	Black Floor Tile Mastic	2500 ft^2	C					

AHERA Six-Month Surveillance Inspection Date:_____

(Print Name):_____

Signature:_____

Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	April 2021 Cond.	Oct. 2021 Cond.	April 2022 Cond.	Oct. 2022 Cond.	April 2023 Cond.	Oct. 2023 Cond.
First Floor								
Phys Ed. Office	9" x 9" Black Floor Tile	112 ft^2	G					
	Black Floor Tile Mastic	112 ft^2	C					
Room 12	9" x 9" Gray Floor Tile	900 ft^2	MD (10 ft^2)					
	Black Floor Tile Mastic	900 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	72 ft^2	G					
Room 13	9" x 9" Gray Floor Tile	900 ft^2	G					
	Black Floor Tile Mastic	900 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Hall Between Rms 13 and 16	9" x 9" Green Floor Tile (Painted Gray)	184 ft^2	G					
	Black Floor Tile Mastic	184 ft^2	C					
	Interior Window Glazing	40 lf	G					
Room 16	9" x 9" Gray Floor Tile	900 ft^2	MD (10 ft^2)					
	Black Floor Tile Mastic	900 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 17	9" x 9" Gray Floor Tile	900 ft^2	MD (4 ft^2)					
	Black Floor Tile Mastic	900 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 18	9" x 9" Gray Floor Tile	900 ft^2	G					
	Black Floor Tile Mastic	900 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					

AHERA Six-Month Surveillance Inspection Date:_____

(Print Name):_____

Signature:_____

Cushing Elementary School-One Aberdeen Drive

Location	ACBM Description	Estimated Quantity	April 2021 Cond.	Oct. 2021 Cond.	April 2022 Cond.	Oct. 2022 Cond.	April 2023 Cond.	Oct. 2023 Cond.
First Floor								
Room 19	9" x 9" Gray Floor Tile	900 ft^2	G					
	Black Floor Tile Mastic	900 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 20	9" x 9" Gray Floor Tile	900 ft^2	G					
	Black Floor Tile Mastic	900 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Hall Between Rms 20 and 21	9" x 9" Green Floor Tile (Painted Gray)	240 ft^2	G					
	Black Floor Tile Mastic	240 ft^2	C					
Room 21	9" x 9" Gray Floor Tile	900 ft^2	G					
	Black Floor Tile Mastic	900 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Room 22	9" x 9" Gray Floor Tile	900 ft^2	G					
	Black Floor Tile Mastic	900 ft^2	C					
	Pink Sink Mastic	1 Unit	G					
	Cementitious Panel below Window	42 ft^2	G					
Crawl Space off Boiler Room	Pipe Fitting Insulation	360 Units	G					

Notes:

ft^2 = Square Foot
lf = Linear Foot
Unit = Each
Cond. = Condition
G = Good
MD = Minor Damage
U = Unknown
C = Covered
NA = Not Accessible

TRAINING RECORDS

4/21/21

VERTEX®

Two-Hour Asbestos Awareness Training Attendance Sheet

Instructor: Jason Mohre (The VERTEX Companies, Inc.)

Printed Name	Date	Time In	Time Out	Signature
DAVE RAPHEL	4/21	9:00	11:00	
Jaime Oliver	4/21	9:00	1:00	
Justin Whyte	4/21	9:00	11:00	
Sandy Mancell	4/21	9:00	11:00	
Dominic Sacchitella	4/21	8:52	11:00	
Edward Brew	4/21	8:52	11:00	
C Sacchitella	4/21	853	11-	
Tony Schiavo	4/21	9:00	11-	
Robert Dillon	4/21	900	11:00	
Brian Reid	4/21	9:00	11-	
BEARCE	4-21	900	11a	
T Whitlock	4-21	9:00	11:00	
McCarthy K.	4/21	9:00	11:00	
GERALD DUFFY	4/21	9:00	11:00	

4/21/21

VERTEX®

Two-Hour Asbestos Awareness Training Attendance Sheet

Instructor: Jason Mohre (The VERTEX Companies, Inc.)

Printed Name	Date	Time In	Time Out	Signature
Corrie Bartlett	4/21	12:00	2	Corrie Bartlett
JANE Rykens	"	"	2	Can Be
Steve Bianchi	"	"	2	Steve Bianchi
William Cannon	"	"	2	
Joseph Connelly	"	"	out	
Bob Stafford	4/21	12:00	2:00	Bob Stafford
Alton Gabriel dos Santos	4/21	12:00	2:00	Alton Gabriel dos Santos
Trevor Tubridy	4/21	12:00	2:00	
Fledison dos Santos	4-21	12:00	2:00	F.
Donna Street	4.21	12:00	2:00	D. Street

PLAN TO INFORM

Under 40 CFR ' 763.93(g)(4), at least once each school year, the LEA must notify in writing parent, teacher, and employee organizations of the availability of the Asbestos Management Plan (AMP) and must include in the AMP, a description of the steps taken to notify such organizations, and a dated copy of the notification. In the absence of any such organizations for parents, teachers, or employees, the LEA must provide written notice to that relevant group of the availability of the AMP and must include in the AMP a description of the steps taken to notify such groups, and a dated copy of the notification.

Under 40 CFR ' 763.93(e)(10), the AMP must include a description of the steps taken to inform workers and building occupants, or their legal guardians, about inspections, re-inspections, response actions, and post-response action activities, including periodic reinspection and surveillance activities that are planned or in progress. Under 40 CFR ' 763.84(c), the LEA must inform them about these activities at least once each school year.

Tips for Superintendents –
Sample Annual Written Notification

SAMPLE: Schools may adapt or expand this sample template in order to comply with minimum requirements to provide annual notification to staff and guardians. Keep a dated copy in each school's Management Plan. For more assistance with AHERA compliance, visit www.mass.gov/dols/ahera

INSERT YOUR LETTERHEAD

ANNUAL ASBESTOS NOTIFICATION LETTER

For School Year 2013-2014

Date: September 20##

Dear Staff, Guardians and Students:

A copy of our district's Asbestos Management Plan is available in each school and at the main administrative office during regular school hours.

The district continues to update and improve the AHERA Asbestos Management Plans. Any inquiries regarding the management of asbestos–containing materials in our schools should be directed to our district's AHERA Designated Person, __ (name) __ who can be reached at ___ (work location) __, and ___(email)_____ and ___ (phone)_____.

THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS

Guidance for Superintendents – Sample Template for Notification to Contractors and Short-Term Workers about Asbestos

Background:

Schools must notify contractors and short-term workers who perform work in the building about the presence of asbestos-containing materials in the vicinity of their work area. The intent is twofold: 1) material should not be accidentally disturbed which could result in occupant exposure or building contamination; and 2) if work will disturb the material, the contractor must use trained, licensed workers and use work practices to prevent occupant exposure and building contamination.

The school may decide the most efficient and effective method for notification. Some schools elect to notify contractors when contracts are awarded. Some schools use a "log-in book" to confirm that all employees of the contractor visiting the school on that particular day are notified about the presence of asbestos-containing materials in the building.

Contractors include electricians, plumbing and heating, HVAC, flooring, and Information Technology. For example, before an IT vendor installs wiring above a suspended ceiling, the school's Asbestos Management Plan should be referenced to determine if the ceiling tiles contain asbestos, and determine if there is spray-on insulation or textured plaster above the ceiling which contain asbestos. Dust control work practices, and worker asbestos training, must be used if asbestos-containing materials will be disturbed. At the completion of work, the area may require O&M cleaning with wet methods or HEPA vacuums.

INSERT YOUR LETTERHEAD

NOTICE TO CONTRACTORS

This notice must be signed by all contractors and vendors conducting work in the schools. The original copy will be maintained in the school office. Each contractor must sign into the school Visitor's Log and complete a copy of this Notice.

To: All contractors who perform work in the ___XX_____ School
Date: September 2013
From: _____
RE: **Presence of Asbestos-Containing-Materials in the XX School**

Your work in the _____ School may disturb Asbestos-Containing Materials.

Locations of Asbestos-Containing Materials:
A diagram of known and presumed asbestos-containing materials is attached to this notice.
Materials include: *(list materials in your school)*

Ceiling tiles
Floor tiles – all 9x9 and12x12 tile
Boiler insulation
Pipe elbow insulation
Spray-on textured ceiling

Disturbing Asbestos-Containing Materials and Presumed Asbestos-Containing Materials:

- If you suspect a material may contain asbestos, contact the district Designated Person, ___ (name) ___ at 617-###-#### before disturbing it.
- Personnel must be trained and authorized to disturb asbestos-containing materials.
- Personnel must follow Operations and Maintenance procedures to ensure that school occupants are not exposed to asbestos dust, and ensure that asbestos dust does not contaminate building areas. A licensed Asbestos Contractor is required when more than 3 square feet or 3 linear feet is disturbed.

Labels are located on asbestos-containing materials located in non-public mechanical areas. The lack of a label does not demonstrate that the material does not contain asbestos.

Please sign below and return this document to the school receptionist as agreement that you have been notified of the presence of asbestos-containing materials, and your acceptance that you will not disturb suspect asbestos-containing materials.

Printed name: _____ Signature:_____

Company: _____ Date: _____