Three – Year Asbestos Re-Inspection and Management Plan Update

Bourne High School
75 Waterhouse Road
Bourne, MA

Bourne Public Schools
Bourne, Massachusetts

December 2011

Fuss & O'Neill EnviroScience, LLC
50 Redfield Street, Suite 100
Boston, Massachusetts 02122

For Compliance with
EPA Asbestos Hazard Emergency Response Act (AHERA)
40 CFR Part 763

FUSS & O'NEILL
EnviroScience, LLC

December 23, 2011

Mr. Edward Donoghue
Director of Business Services
Bourne Public Schools
36 Sandwich Road
Bourne, MA 02532

RE: 2011 Three Year AHERA Management Plan Update
Bourne High School
75 Waterhouse Road, Bourne, Massachusetts
Fuss & O'Neill EnviroScience, LLC No. 20070914.A7E

Dear Mr. Donoghue:

Fuss & O'Neill EnviroScience, LLC (EnviroScience) is pleased to submit the enclosed report of the three-year AHERA asbestos re-inspection and management plan update performed at the Bourne High School located at 75 Waterhouse Road in Bourne, Massachusetts. This report is an important document that must be kept on file at the school as well as at a central location where all the Management Plans are preserved.

If you have any questions regarding this report, please do not hesitate to contact us. Thank you for this opportunity to have served your environmental needs.

Sincerely,





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Enclosure

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1 INTRODUCTION

1.1 Background

The Clean Air Act of 1977 required the United States Environmental Protection Agency (USEPA) to develop standards to address the potential health aspects associated with adverse effects of asbestos exposure as an indoor contaminant. In October 1986 the USEPA promulgated the Asbestos Hazard Emergency Response Act (AHERA).

The AHERA regulations required that all local education agencies conduct inspections of each school building that they lease, own, or otherwise use as a school building in order to identify all locations or friable and non-friable asbestos-containing building materials (ACBM). The original inspections were required to have been completed prior to October 12, 1988.

Any building leased or acquired on or after October 12, 1988 that is to be used as a school building shall be inspected for friable and non-friable ACBM prior to use as a school building. In the event of an emergency use of a building that has not been inspected for ACBM, the building shall be inspected within 30 days after commencement of such use.

The regulatory requirements are still in full force and effect for any private or public school system, a church affiliated school of any denomination, a school dedicated to the education of children with special needs, or a charter school. In the Commonwealth of Massachusetts the Department of Labor Standards (DLS), formerly known as the Division of Occupational Safety (DOS), Asbestos and Lead Program is responsible for enforcement of the AHERA regulations.

1.2 Local Education Agency (LEA) Responsibilities

A. The LEA is responsible for compliance with AHERA regulation 40 CFR Part 763. The following responsibilities must be adhered to (refer to above mentioned regulation for full requirements and responsibilities):

1. The LEA must designate a person to ensure that all of the AHERA requirements are properly implemented. The Designated Person must receive adequate training to perform his/her duties.

2. The LEA must ensure that management plans are maintained in a central location as well as at each facility, and such plans and records are available for inspection or review at all times.

3. The LEA must inform all teachers, parents of students, or legal guardians in writing at least once each school year about asbestos related activities, and the availability of the AHERA management plans for the school buildings.

4. The LEA must ensure proper accreditation for all persons who perform asbestos inspections, asbestos re-inspections, develop/update management plans, develop response actions, and/or perform required response actions including operations and maintenance activities that may disturb asbestos.

5. The LEA must provide training for all custodial and maintenance staff who regularly perform building maintenance where asbestos containing building materials (ACBM) are present. The training must be provided upon initial hire as well as updated annually.

6. The LEA must provide information (disclosure) to any workers who may perform short-term work and come in contact with asbestos in school buildings where ACBM or presumed ACBM are present.

7. The LEA must ensure that known ACBM or presumed ACBM are provided with warning labels in routine maintenance areas.

8. The LEA must ensure that periodic surveillance is performed at least once every six months, after a management plan is in effect, in all school buildings that it leases, owns, or otherwise uses that contains ACBM or presumed ACBM.

9. The LEA must ensure that once every three years, after a management plan is in effect, a re-inspection is performed in all school buildings that it leases, owns, or otherwise uses that contains ACBM or presumed ACBM.

1.3 Accreditation

A. Local Education Agency (LEA)

LEA:	Bourne Public Schools
Address:	36 Sandwich Road Bourne, Massachusetts 02532
Phone:	(508)-759-0660
Fax:	(508)-759-1107

B. Designated Person

Designated Person:	Mr. Edward Donoghue Director of Business Services
Address:	36 Sandwich Road Bourne, Massachusetts 02532

C. Asbestos Consultant Data

Firm:	Fuss & O'Neill EnviroScience, LLC.
Address:	50 Redfield Street, Suite 100 Boston, Massachusetts 02122
Phone:	(617) 282-4675
Fax:	(617) 282-8253

D. Asbestos Inspector

Inspector:	Mr. Dustin Diedricksen
Accreditation Number:	AI041867
State of Accreditation:	Massachusetts
Expiration Date:	04/26/12

E. Asbestos Management Planner:

Planner:	Mr. Robert May
Accreditation Number:	AP041719
State of Accreditation:	Massachusetts
Expiration Date:	03/27/12

1.4 Inspection History and Schedule

A. Original AHERA Inspection Management Plan

Report Date:	September 1988
Prepared By:	EnviroScience Consultants, Inc.
Address:	Newington, Connecticut

B. Three Year Re-Inspections

1. September 1994 prepared by EnviroScience Consultants, Inc.
2. August 1998 prepared by EnviroScience Consultants, Inc.
3. July 2001 prepared by EnviroScience Consultants, Inc.
4. August 2004 prepared by EnviroScience Consultants, Inc.
5. August 2007 prepared by Fuss & O'Neill EnviroScience, LLC

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2 Three Year Re-inspection

2.1 Re-inspection Procedures

This three-year asbestos re-inspection was conducted in accordance with the requirements of the following regulations:

- United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) regulation (40 CFR Part 763, Section 763.85 (b)).

Mr. Dustin Diedricksen of Fuss & O'Neill EnviroScience, LLC (EnviroScience) performed the re-inspection on September 2, 2011. Mr. Diedricksen is an accredited Asbestos Inspector in the Commonwealth of Massachusetts (License No. AI041867). On December 12, 2011, Fuss & O'Neil EnviroScience representative, John Coletti, confirmed the checklist for existing records.

A. During the re-inspection the following required tasks were performed:

1. A visual re-inspection and re-assessment of all friable known or assumed asbestos-containing building materials (ACBM).

2. A visual re-inspection of ACBM that was previously considered non-friable to determine if the present condition of the material has made it friable.

3. Identification and assessment of any homogeneous area that contained new friable ACBM since the last inspection or re-inspection.

Note: The limits of an AHERA inspection involve visible and accessible areas only. ACBM may exist in concealed chases, above fixed ceilings, or concealed below floors. Additionally, material such as glue associated with chalkboards and tackboards, flooring adhesives and mastics, and concealed thermal system insulation may contain asbestos, and are presumed to be present.

2.2 Limited Building Description

Bourne High School is a three-level concrete and masonry structure that was constructed in 1959-60. An addition was built in 1990-91, which included a new auditorium, library, music room, technical education room, and other classrooms along one side of the main building. Building areas include three floors of classrooms, offices, auditorium, a library, two gymnasiums, kitchen, cafeteria, and two boiler rooms with associated crawlspaces. The gross area of this facility is approximately 83,300 square feet.

Three hot water boilers provide perimeter heating through unit ventilators in the various classrooms and other areas.

No renovation or construction had been performed since the last inspection.

3 RE-INSPECTION REPORT

3.1 Review of Existing Records

An important part of this AHERA re-inspection involved checking documentation that was required to be present at the building being inspected as well as at the central location where all management plans are preserved.

Please see *Appendix A* for details of our findings.

3.2 Re-inspection Summary

The on-site portion of the re-inspection was documented on forms modeled from examples provided by the United States Environmental Protection Agency (USEPA). A single form has been created which summarizes the inventory of materials by type, location, quantity, and category. Each location of a given material type is provided an exposure assessment including friability, a previous condition assessment category consistent with AHERA rankings, a current assessment category ranking, and notes regarding the current assessment. The forms also identify any previous recommendations from last recorded three-year inspection, and current recommendations based on the re-inspection.

Any newly identified materials are also recorded and identified as newly identified materials. Note no samples were collected of materials as part of the re-inspection. Any newly identified materials are presumed to contain asbestos.

The information obtained during this re-inspection was transmitted to Mr. Robert May, an accredited Management Planner, so that response actions relative to the condition of the ACBM could be designed. Mr. May is a licensed Asbestos Management Planner in the Commonwealth of Massachusetts (License No. AP041719).

3.3 Newly Identified ACBM Material

No newly identified materials were determined and/or assumed to be ACBM.

Any suspect material encountered during renovation/demolition that is not specifically identified in this report as a non-ACM should be assumed to contain asbestos unless sample results prove otherwise. AHERA inspections do not satisfy the requirements for the U.S. EPA survey requirements for compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP). A NESHAP survey should be performed prior to renovation or other planned disturbance within a building.

3.4 Physical Assessment of ACBMs

During the inspection, suspect ACBM were separated into three USEPA categories. These categories are thermal system insulation (TSI), surfacing (SURF) ACBM, and miscellaneous (MISC) ACBM. TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe insulation, boiler insulation, duct insulation, and mudded insulation on pipe fittings. Surfacing ACBM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACBM not listed in TSI or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

Finally, all ACBM were quantified in linear and/or square footage depending on the nature of the material.

All ACBM identified during the inspection and still remaining in the school were reassessed using the AHERA guidelines for assessment of ACBM. The assessment categories are listed as follows:

1 = Damaged or significantly damaged TSI ACBM
2 = Damaged friable surfacing ACBM
3 = Significantly damaged friable surfacing ACBM
4 = Damaged or significantly damaged friable miscellaneous ACBM
5 = ACBM with potential for damage
6 = ACBM with potential for significant damage
7 = Any remaining friable ACBM or friable suspected ACBM

Material locations, assessments, and recommended response actions are listed in the Re-inspection forms located in *Appendix B*.

4 MANAGEMENT PLAN UPDATE

4.1 Recommended Response Actions

Based on the inspection report, physical walk-through inspection and existing condition of the ACBM, the following response actions are recommended:

1 Our inspector could not locate copies of any past or present AHERA documentation at the School facility except for the 1994 re-inspection. The records of all inspections are to be maintained at the School building as well at the Central Offices (Facilities Management).

1 Repair damaged pipe insulation and/or mudded fittings at accessible areas in the identified the school building.

2 Repair damaged 9 x 9 VAT identified (i.e. numerous locations).

Operations and Maintenance (O & M)

All ACBM in the School shall be managed in place in accordance with the original AHERA Operations and Maintenance (O & M) Program. The condition of such materials will be monitored until all the ACBM have been removed from the building. A successful O & M Program includes the following elements:

a) Cleaning: All areas of the school where friable ACBM or friable suspected ACBM assumed to be ACM are present shall be cleaned at least once after the completion of the initial inspection. Additional cleaning may be necessary if the Management Planner makes a written recommendation indicating methods and frequency of such cleaning.

b) O & M Activities: The LEA shall ensure that the procedures described below are followed to protect building occupants from any O & M activities that may disturb known or assumed ACM:

1. Restrict entry into the area either by physically isolating or by scheduling.
2. Post warning signs to prevent entry by unauthorized persons.
3. Shut off or temporarily modify the air-handling system.
4. Use proper work practices and engineering controls such as wet methods, protective clothing, HEPA-vacuums, mini enclosures/glove bags, etc., to inhibit spread of fibers.
5. Place all asbestos debris and other contaminated materials in a sealed, leak-tight container for eventual disposal.

c) Minor Fiber Release Episodes: The LEA shall ensure that the procedures described below are followed in the event of a minor fiber release episode (i.e., disturbance of 3 linear/square feet or less of friable ACM):

1. Saturate the debris using wet method.
2. Place the debris in a sealed, leak-tight container, and clean the area.
3. Repair the area of damaged ACBM with materials such as asbestos-free spackling, plaster, insulation, etc., or seal with an encapsulant.

d) Major Fiber Release Episode: The LEA shall ensure that the procedures described below are followed in the event of a major fiber release episode (i.e., disturbance of more than 3 linear/square feet of friable ACBM):

1. Restrict entry into the area and post warning signs.
2. Shut off or temporarily modify the air handling system to prevent spread of fibers to other areas of the school.
3. The response for any major fiber release episode must be designed by persons accredited to design response actions and conducted by persons accredited to conduct response actions.
4. The LEA shall notify the Massachusetts Department of Labor Standards (DLS), formerly known as the Division of Occupational Safety (DOS), of any major fiber

release episode within twenty-four hours of its occurrence and, if necessary, provide written notification as required by applicable federal and/or state regulations.

4.2 Periodic Surveillance

At least once every six (6) months after a management plan is in place, the LEA shall conduct periodic surveillance in the school that contains ACBM or assumed to contain ACM. The person conducting periodic surveillance shall visually inspect all areas in the school that have been identified in the management plan as having ACBM. In addition, he/she shall record the date of surveillance, his/her name, and any changes in the condition of the materials, and submit the record to the LEA Designated Person for inclusion in the management plan.

Please see *Appendix C* for Periodic Surveillance Forms that may be used for conducting periodic surveillance.

4.3 Preventive Measures

The LEA shall institute appropriate preventive measures to eliminate the reasonable likelihood that the ACBM will become damaged, deteriorated, or delaminated.

Please see *Appendix D* for preventive measures designed for various types of ACM that may exist in the school.

5 EPA CERTIFICATION REQUIREMENTS

The certificates and the licenses for the individuals (Dustin Diedricksen and Robert L. May Jr.) involved in performing the re-inspection and updating the management plan are provided in *Appendix E*.

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APPENDIX A

CHECKLIST FOR EXISTING RECORDS

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CHECKLIST FOR EXISTING RECORDS

Local Education Agency (LEA): Bourne Public Schools
36 Sandwich Road, Bourne, MA

School Building: Bourne High School

The following documentation is required to be present in both the LEA's Office as well as in a centralized location in the administrative office of the school. The information included in this checklist shall be verified to be present and complete as part of three year re-inspection.

DOCUMENTATION		LOCATION	
		School	LEA Office
1.	Original AHERA Inspection/Management Plan	Not seen	Yes
2.	Three year Re-inspection (First)	Yes	Yes
3.	Three year Re-inspection (Second)	Not seen	Yes
4.	Three year Re-inspection (Third)	Not seen	Yes
5.	Notifications to Parents/Guardians and Teachers (yearly since last re-inspection)	Not seen	No
6.	Designated Person Identified and Proper Training (person must be named and have appropriate training)	Not seen	No
7.	Designated Person Periodic Surveillance (every six months since last re-inspection)	Not seen	No
8.	Record of Awareness Training for Maintenance Staff	Not seen	No
9.	Outside Vendor Awareness Notification	Not seen	No
10.	Warning Signs and Labels (required posting in Boiler room and mechanical spaces only)	Not seen	No
11.	Record of Response Actions (includes any abatement done since last re-inspection)	Not seen	No (N\A)

Inspector: John Coletti Date: December 12, 2011

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APPENDIX B

RE-INSPECTION FORM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type Boiler Insulation

Sample # 721JH-01 A-C; 721JH-02 A-C; 721JH-03 A-C

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommend-ations	Current Recommend-ations
Small boiler Room in C-Wing	107 SF	TSI	Y	1 SF of damage at Rear Seam	Determined to be Non-ACM from 2009 sampling (724-JH-01A-C to 03A-C)	Non-ACM	Continue O&M	Remove from O&M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type Mudded Insulation on Pipe Fittings

Sample # A2-A10

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
Throughout Pipe Tunnel	470 Fittings	TSI	F	5	5	Good	2001 AHERA recommended removal of 6 damaged fittings. Condition not observed, however no record of response action provided. Continue O&M for all insulation.	Continue O&M
Gymnasium	8 Fittings	TSI	F	5	5	Gym was inaccessible at time due to on going sealing of gym floor	2001 AHERA recommended removal of 8 damaged fittings. Condition not observed, however no record of response action provided. Continue O&M for all insulation.	Continue O&M
Boy's Locker Room near ceiling behind cubicle	1 Fitting	TSI	F	5	5	Good	Continue O&M	Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type Mudded Insulation on Pipe Fittings

Sample # A2-A10

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
Janitor's Chemical Storage Room across from Weight Room (In basement next to Graphic Art's Room)	12 Fittings	TSI	F	5	5	Good	Continue O&M	Continue O&M
First Floor Men's Room near west exit (across from Café)	16 Fittings	TSI	F	5	5	Good. (Only 6 of 16 fittings observed were ACM. The others were plastic).	Continue O&M	Continue O&M
A wing Classrooms above ceilings	Unknown	TSI	F	5	5	Good	Continue O&M	Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
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B wing Classrooms above ceilings	Unknown	TSI	F	5	5	Good	Continue O&M	Continue O&M
Janitor's Office in Basement	6 Fittings	TSI	F	5	5	Good	Continue O&M	Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type Mudded Insulation on Pipe Fittings

Sample # A2-A10

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
Basement Storage Room across from Art Room	3 Fittings	TSI	F	5	1	1 Damaged Fitting	Continue O&M	Repair 1 Damaged Fitting
Basement Art Room 9	28 Fittings	TSI	F	5	5	Some fittings are plastic.	Continue O&M	Continue O&M
Basement Art Room 9 Closet	1 Fitting	TSI	F	5	1	1 Fitting Damaged	2001 AHERA recommended removal of fitting. Fitting has not been removed or repaired. Recommend removing and re-insulating due to potential for damage.	Fitting is wrapped with duct tape. Remove Damaged Fitting
Alarm Vault across from Elevator	2 Fittings	TSI	F	5	5	Good	Continue O&M	Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type Mudded Insulation on Pipe Fittings

Sample # A2-A10

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
Office Materials Storage Room Near Elevator in Basement	6 Fittings	TSI	F	5	5	Good	2001 AHERA Recommended removal of 2 fittings. Fittings have not been removed or repaired. Recommend removing and re-insulating all fittings due to potential for damage.	Continue O&M
Duct Vault below main Gym	5 Fittings	TSI	F	5	1/5	Damaged /Good	Continue O&M	Repair 2 damaged fittings. Remainder in god condition. Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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B-wing Janitor's Closet near Boy's Restroom	6 Fittings	TSI	F	1	5	Good (2009 Periodic Surveillance)	2001 AHERA Recommended removal of 2 fittings. Fittings have not been removed or repaired. Recommend removing and re-insulating all fittings due to potential for damage.	Continue O&M
Women's Locker Room (Fittings at roof drain)	8 Fittings	TSI	F	5	5	Good	Continue O&M	Continue O&M
Women's Storage Closet next to Locker room	9 Fittings	TSI	F	5	1/5	Damaged/ Good	Continue O&M	1 Damaged fitting at corner of ceiling behind duct, remainder are in good condition, Repair damaged fitting, Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
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Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type Mudded Insulation on Pipe Fittings

Sample # A2-A10

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
Janitor's Closet on second floor across from Elevator	2 Fittings	TSI	F	5	1	Damaged (1 fitting)	Continue O&M	Remove damaged fitting and re-insulate
C wing Classrooms above ceilings	Unknown	TSI	F	7	7	Good	Continue O&M	Continue O&M
Photography Darkroom	6 Fittings	TSI	F	5	1/5	Damaged/ Good	Continue O&M	Repair one damaged fitting. Continue O&M
Custodians Closet w/slop sing in basement	6 Fittings	TSI	F	5	1/5	Damaged/Good	2001 AHERA recommended removal of 2 fittings. Fittings have not been removed or repaired. Recommend removing and re-insulating all fittings due to potential	Remove damaged fitting and re-insulate Continue O&

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

							for damage.	M on remainder
Concealed Chases and above fixed Ceilings	Unknown	TSI	F	N/A	N/A	Not Visible	O&M	Avoid Disturbance

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 9 x 9 Floor tiles

Sample # B1

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommend-ations	Current Recommend-ations
Classrooms 17A, 19A, 21A, 22A, 23A, 25A, 27A, 21B, 23B and Business Office	5,800 SF	MISC	N	5	4/5	5 SF Missing/ damaged tiles in 25A, 1 tile missing in 22A, 1 Tile replaced in 14B. Remainder in good condition	Continue O&M	Repair damaged/ missing tile. Continue O&M
Classroom 11B	500 SF	MISC	N	5	5	Good	Continue O&M	Continue O&M
Classrooms 12A, 14A, 24A, 10B, 12B, 14B, 20B, 21B, 22B 23B, 24B, and 26B	6,200 SF	MISC	N	5	5	Good	Continue O&M	Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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Classrooms 10C, 11C, 12C, 13C, 14C, 15C 20C, 21C, 22C, 23C, 24C, 25C, Biology, Physics Storage Room between 10C and 12C	8,000 SF	MISC	N	5	4/5	6 SF Damage in 11C Remainder in good condition	Continue O&M	Repair damaged tiles continue O& M
Classrooms 15C, 20B, 24C, and Office between 24A and Physics	1,525 SF	MISC	N	5	5	Good	Continue O&M	Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 9 X 9 floor tile

Sample # B1

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
Men's Faculty Restroom on the First Floor	120 SF	MISC	N	5	4	Noted in 2009 Periodic Surveillance Form as good	Noted in 2009 Periodic Surveillance Form as good	Continue O&M
Women's Faculty Restroom on the First Floor	120 SF	MISC	N	5	4	Noted in 2009 Periodic Surveillance Form as good	Noted in 2009 Periodic Surveillance Form as good	Continue O&M
Special Education (former Home Economics Room)	950 SF	MISC	N	5	5	Good	Continue O&M	Continue O&M
Special Education (former Home Economics Room)	250 SF	MISC	N	5	5	Good	Continue O&M	Continue O&M
Storage Room between Classroom 24A &	175 SF	MISC	N	5	4	10 SF Damage in	Continue O&M	Repair damaged floor tile

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Physics Room						Storage Rm B on 2nd Floor		

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type Transite Exhaust Ducts

Sample # B2

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommend-ations	Current Recommend-ations
Classrooms 22C & 24C	156 SF	MISC	N	5	5	Good	Continue O&M	Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 8, 2007
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type Roof Drain Mudded Insulation on Fittings

Sample # B4

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommend-ations	Current Recommend-ations
Women's Locker Room, Gym Office, Biology Lab, 2nd Floor Storage Room, Music Room, Custodial Closet, Faculty Lunch Room	10 Fittings	TSI	F	5	4/5	5 SF Damage in B-Wing 2nd Floor Storage Room Remainder in good condition	Continue O&M	Repair damaged fitting insulation Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type Transite Fume Hood Panels (siding)

Sample # B5

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommend-ations	Current Recommend-ations
Research Room located between classrooms 22C and 24C	40 SF	MISC	N	5	5	Good	Continue O&M	Continue O&M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 2' x 2' Suspended Ceiling Tile

Sample # 724-JH-11A-C

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommend-ations	Current Recommend-ations
Hallway between Gym and Cafeteria	1,900 SF	MISC	F	5	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M	Remove from O&M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 1' x 1' Acoustic Ceiling Tile

Sample # 721-JH-09A-C

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommendations
Classrooms 10C, 12C, 14C, 11C, 13C, 10B, 12B, 12A, 19A and Health/Nurse's Office	6,300 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	Continue O&M	Remove from O&M Plan
Classrooms 24A, 24C, 22C, 21C, 20C, 23C, 25C, and Office between Classroom 24C and Physics	4,900 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	Continue O&M	Remove from O&M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Classroom 15C	600 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O&M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 1' x 1' Acoustic Ceiling Tile

Sample # 721JH-09A-C, 10A-C

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
Storage Room between Classrooms 10C and 12C	200 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Classroom 11B and Restroom in the classroom	650 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 1' x 1' Acoustic Ceiling Tile

Sample # 721JH-09A-C, 10A-C

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommendations
Men's and Women's First Floor Faculty Restrooms	240 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan
Classroom 10B	700 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Classroom 14B	700 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 1' x 1' Acoustic Ceiling Tile

Sample # 712-JH-09A-C, 10A-C

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommendations
Computer Classroom and Special Education Room (Former Home Economics Room)	1,700 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan
Classroom 14A	700 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan
Classroom 17A	700 SF	MISC	F	4	Determined to be Non-ACM from		2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but	Remove from O & M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

					2009 sampling	Non-ACM	no record of response action. Sample to determine asbestos content. Continue O&M.	

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 1' x 1' Acoustic Ceiling Tile

Sample # 712-JH-09A-C, 10A-C

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
1st and 2nd Floor Floating Stairways in Hallway (1 each floor)	1,400 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan
Classrooms 22B and 23B	1,375 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan
Classroom 27A	675 SF	MISC	F	4	Determined to be Non-ACM from		2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no	Remove from O & M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

					2009 sampling	Non-ACM	record of response action. Sample to determine asbestos content. Continue O&M.	

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 1' x 1' Acoustic Ceiling Tile

Sample # 712-JH-09A-C, 10A-C

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
Classrooms 21A, 23A and 25A	1,500 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan
Biology Classroom	750 SF	MISC	F	4	Determined to be Non-ACM from 2009 sampling	Non-ACM	2001 AHERA recommended removing and replacing damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	Remove from O & M Plan
Physics Classroom and	875 SF	MISC	F	4	Determined to be Non-		2001 AHERA recommended removing and replacing	Remove from O & M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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Storage Room between Classroom 24A and Physics					ACM from 2009 sampling	Non-ACM	damaged tiles. Damage not observed but no record of response action. Sample to determine asbestos content. Continue O&M.	

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 1' x 1' Acoustic Ceiling Tile

Sample # 712-JH-09A-C, 10A-

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
Book Storage C, 1st Floor C Hall, 1st Floor B Hall, 16B, 10A	Un-determined	MISC	F	-	Determined to be Non-ACM from 2009 sampling	Non-ACM	Other areas where damaged 1'x1' Ceiling Tiles observed. Could be rooms listed above by ambiguous names.	Remove from O & M Plan

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 2' x 4' Suspended Ceiling Tile

Sample # 721-JH012A-C

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommendations	Current Recommend-ations
D-Wing including Auditorium, Gym, Library, Classrooms 11A, 13A, and 15A	11,500 SF	MISC	Y	5	Determined to be Non-ACM from 2009 sampling	Non-ACM	Sample to determine asbestos content. Continue O&M.	Remove from O& M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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ASBESTOS RE-INSPECTION FORM

Inspection Date: September 2, 2011
Inspector: Dustin Diedricksen

Bourne High School, Town of Bourne

ACM Type 1' x 1' Floor Tile Mastic

Sample # 721-JH18A-D

ACM Inventory			Exposure Assessment				Response Action	
Location	Estimate Quantity	Material Category	Friable	Previous Conditions	Current Assessment Category	Current Assessment Description	Previous Recommend-ations	Current Recommend-ations
D-Wing including Classrooms 11A, 13A, and 15A	12,000 SF	Misc	N	5	Determined to be Non-ACM from 2009 sampling	Non-ACM	Sample to determine asbestos content. Continue O&M.	Remove from O& M

AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

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AHERA assessment category:
1= Damaged or significantly damaged TSI ACBM, 2=Damaged friable surfacing ACBM, 3=Significantly damaged friable surfacing ACBM, 4=Damaged or significantly damaged friable miscellaneous ACBM, 5=ACBM with potential for damage, 6=ACBM with potential for significant damage,
7=Any remaining friable ACBM or friable suspected ACBM

APPENDIX C

PERIODIC SURVEILLANCE FORM

PERIODIC SURVEILLANCE FORM – List of ACBM Asbestos-Containing Materials

School: Bourne High School
Address: 75 Waterhouse Road, Bourne, MA

Date(s) of Original Inspection: 1988
Date(s) of Subsequent Re-Inspections: 94, 98, 01, 05, 07

Periodic Inspection Date: _____ Conducted By:_____

Asbestos Containing Material	Location	Previous Condition	Present Condition	Change in Condition (Yes/No)	Quantity Damaged	Comments
Mudded insulation on pipe fittings	Throughout Pipe Tunnel	Good				
Mudded insulation on pipe fittings	Gymnasium	Gym was inaccessible at time due to on going sealing of gym floor				
Mudded insulation on pipe fittings	Boy's Locker Room near ceiling behind cubicle	Good				
Mudded insulation on pipe fittings	Janitor's Chemical Storage Room across from Weight Room (In basement next to Graphic Art's Room)	Good				
Mudded insulation on pipe fittings	First Floor Men's Room near west exit (across from Café)	Good. (Only 6 of 16 fittings observed were ACM. The others were plastic).				
Mudded insulation on pipe fittings	A wing Classrooms above ceilings	Good				

Conditions: G = Good
D = Damaged
SD = Significant damage

PERIODIC SURVEILLANCE FORM – List of ACBM Asbestos-Containing Materials

School: Bourne High School
Address: 75 Waterhouse Road, Bourne, MA

Date(s) of Original Inspection: 1988
Date(s) of Subsequent Re-Inspections: 94, 98, 01, 05, 07

Periodic Inspection Date: _____ Conducted By:_____

Asbestos Containing Material	Location	Previous Condition	Present Condition	Change in Condition (Yes/No)	Quantity Damaged	Comments
Mudded insulation on pipe fittings	B wing Classrooms above ceilings	Good				
Mudded insulation on pipe fittings	Janitor's Office in Basement	Good				
Mudded insulation on pipe fittings	Basement Storage Room across from Art Room	1 Damaged Fitting				
Mudded insulation on pipe fittings	Basement Art Room 9	Some fittings are plastic				
Mudded insulation on pipe fittings	Basement Art Room 9 Closet	1 Fitting Damaged				
Mudded insulation on pipe fittings	Alarm Vault across from Elevator	Good				
Mudded insulation on pipe fittings	Office Materials Storage Room Near Elevator in Basement	Good				
Mudded insulation on pipe fittings	Duct Vault below main Gym	Damaged /Good				

Conditions: G = Good
D = Damaged
SD = Significant damage

PERIODIC SURVEILLANCE FORM – List of ACBM Asbestos-Containing Materials

School: Bourne High School
Address: 75 Waterhouse Road, Bourne, MA

Date(s) of Original Inspection: 1988
Date(s) of Subsequent Re-Inspections: 94, 98, 01, 05, 07

Periodic Inspection Date: _____ Conducted By:_____

Asbestos Containing Material	Location	Previous Condition	Present Condition	Change in Condition (Yes/No)	Quantity Damaged	Comments
Mudded insulation on pipe fittings	B-wing Janitor's Closet near Boy's Restroom	Good (2009 Periodic Surveillance)				
Mudded insulation on pipe fittings	Women's Locker Room (Fittings at roof drain)	Damaged/ Good				
Mudded insulation on pipe fittings	Women's Storage Closet next to Locker room	25 SF Damaged				
Mudded insulation on pipe fittings	Janitor's Closet on second floor across from Elevator	Damaged (1 fitting)				
Mudded insulation on pipe fittings	C wing Classrooms above ceilings	Good				
Mudded insulation on pipe fittings	Photography Darkroom	Damaged/ Good				
Mudded insulation on pipe fittings	Custodians Closet w/slop sing in basement	Damaged/Good				
Mudded insulation on pipe fittings	Concealed Chases and above fixed Ceilings	Not Visible				

Conditions: G = Good
D = Damaged
SD = Significant damage

PERIODIC SURVEILLANCE FORM – List of ACBM Asbestos-Containing Materials

School: Bourne High School
Address: 75 Waterhouse Road, Bourne, MA

Date(s) of Original Inspection: 1988
Date(s) of Subsequent Re-Inspections: 94, 98, 01, 05, 07

Periodic Inspection Date: _____ Conducted By:_____

Asbestos Containing Material	Location	Previous Condition	Present Condition	Change in Condition (Yes/No)	Quantity Damaged	Comments
9 x 9 floor tiles	Classrooms 17A, 19A, 21A, 22A, 23A, 25A, 27A, 21B, 23B and Business Office	5 SF Missing/ damaged tiles in 25A, 1 tile missing in 22A, 1 Tile replaced in 14B. Remainder in good condition				
9 x 9 floor tiles	Classroom 11B	Good				
9 x 9 floor tiles	Classrooms 12A, 14A, 24A, 10B, 12B, 14B, 20B, 21B, 22B 23B, 24B, and 26B	Good				
9 x 9 floor tiles	Classrooms 10C, 11C, 12C, 13C, 14C, 15C 20C, 21C, 22C, 23C, 24C, 25C, Biology, Physics Storage Room between 10C and 12C	6 SF Damage in 11C Remainder in good condition				
9 x 9 floor tiles	Classrooms 15C, 20B, 24C, and Office between 24A and	Good				
9 x 9 floor tiles	Men's Faculty Restroom on the First Floor	Good (2009 Periodic Surveillance)				

Conditions: G = Good
D = Damaged
SD = Significant damage

PERIODIC SURVEILLANCE FORM – List of ACBM Asbestos-Containing Materials

School: Bourne High School
Address: 75 Waterhouse Road, Bourne, MA

Date(s) of Original Inspection: 1988
Date(s) of Subsequent Re-Inspections: 94, 98, 01, 05, 07

Periodic Inspection Date: _____ Conducted By:_____

Asbestos Containing Material	Location	Previous Condition	Present Condition	Change in Condition (Yes/No)	Quantity Damaged	Comments
9 x 9 floor tiles	Women's Faculty Restroom on the First Floor	Good 2009 (Periodic Surveillance)				
9 x 9 floor tiles	Special Education (former Home Economics Room)	Good				
9 x 9 floor tiles	Special Education (former Home Economics Room)	Good				
9 x 9 floor tiles	Storage Room between Classroom 24A & Physics Room	10 SF Damage in Storage Room B on 2nd Floor				
Transite Exhaust Ducts	Classrooms 22C & 24C	Good				
Roof Drain Mudded Insulation on Fittings	Women's Locker Room, Gym Office, Biology Lab, 2nd Floor Storage Room, Music Room, Custodial Closet, Faculty Lunch Room	5 SF Damage in B-Wing 2nd Floor Storage Room Remainder in good condition				

Surveillance conducted by: _____

_____

Conditions: G = Good
D = Damaged
SD = Significant damage

PERIODIC SURVEILLANCE FORM – List of ACBM Asbestos-Containing Materials

School: Bourne High School
Address: 75 Waterhouse Road, Bourne, MA

Date(s) of Original Inspection: 1988
Date(s) of Subsequent Re-Inspections: 94, 98, 01, 05, 07

Periodic Inspection Date: _____ Conducted By:_____

(signature)

I, the LEA's Designated Person, have read and understood the findings noted above: _____

Date: _____

Conditions: G = Good
D = Damaged
SD = Significant damage

FUSS & O'NEILL
EnviroScience, LLC

APPENDIX D

PREVENTIVE MEASURES

FUSS & O'NEILL
EnviroScience, LLC

PREVENTIVE MEASURES

FOR VARIOUS ASBESTOS-CONTAINING MATERIALS

A. SURFACING MATERIALS

"Surfacing Materials" means materials in a school building that are sprayed-on, troweled-on, or otherwise applied to surfaces. These include sprayed-on fireproofing materials on structural members, ceiling and wall plasters, or other materials applied to surfaces for acoustical, fireproofing, or other purposes.

Surfacing Materials are generally considered friable and can release asbestos fibers if damaged by impact, air erosion, vibration, and/or water intrusion. The following procedures, when properly implemented, will reduce the potential for fiber release:

Sprayed-on fire-proofing

Identify the materials and post warning signs on the laid-in or glued-in ceiling tile. If the decking is not covered, place the sign on the wall.
Maintain the materials in intact state and undamaged condition. During winter, pigeons, squirrels and other rodents tend to roost in boiler/machine rooms and dislodge sprayed-on fireproofing on the decking. Prevent such possibilities.
Prevent water leakage. If the material is significantly damaged, removal is the best option. For minor damage, enclosure is a temporary solution. Encapsulation of damaged sprayed-on fireproofing material is not recommended.
Train the custodial people who are responsible for care and maintenance of surfacing materials.
Please note that the repair/removal can only be performed by a licensed abatement contractor.

Ceiling plaster (note that wall plaster id non-ACM, ceiling plaster had been confirmed to contain asbestos).

Identify the materials and post warning signs.
Maintain the materials in intact state and undamaged condition. Avoid storing/stacking on/near the materials to reduce contact damage.
Prevent water leakage. If the material is significantly damaged, removal is the best option. For minor damage, repair or enclosure is a temporary solution.
Train the custodial people who are responsible for care and maintenance of surfacing materials.

B. THERMAL SYSTEM INSULATION (TSI)

"Thermal System Insulation (TSI)" means insulating materials applied to pipes, pipe fittings, boilers, breechings, tanks, ducts, or other components to prevent process heat loss or gain, water condensation, or for other purposes (e.g., fire door insulation core).

TSI is generally considered friable ACM. This means it can be easily damaged, increasing the potential for fiber release. The following procedures, when properly implemented, will reduce the potential for fiber release:

Boiler and breeching insulation

Identify the locations and label the boiler. Warning signs should be posted outside the boiler room.
Reduce the likelihood of fiber release by ensuring that the insulation is not damaged. Avoid storing/stacking on/near the boiler to reduce contact damage.
Maintain the insulation in intact state and undamaged condition. Repair damaged areas as soon as possible to prevent further deterioration. If repair is not feasible due to extensive damage/deterioration, remove the material.
Train the custodial people who are responsible for care and maintenance of TSI. Please note that the repair/removal can only be performed by a licensed abatement contractor.

Pipe, pipe-fittings, tank and duct insulation

Identify the locations and label the materials. Warning signs should be posted outside of rooms that have TSI materials.
Reduce the likelihood of fiber release by ensuring that the materials are not damaged. Avoid storing/stacking near the materials to reduce contact damage.
Maintain all TSI materials in intact state and undamaged condition. Inspect the protective jackets for damage. Repair damaged areas as soon as possible to prevent further deterioration. If repair is not feasible due to extensive damage/deterioration, remove the material.
Train the custodial people who are responsible for care and maintenance of TSI. Please note that the repair/removal can only be performed by a licensed abatement contractor.

Fire door

Identify the locations and label the materials.
Since there may be a number of different types of fire doors throughout a building, fire door cores must be considered to have asbestos-containing interior insulation unless sample result prove otherwise. Prior to performing any maintenance on any door (lock change, drilling, etc.), the door should be surveyed by qualified personnel to rule out the existence of an asbestos core.
Train the custodial people who are responsible for care and maintenance of TSI. Please note that the repair/removal can only be performed by a licensed abatement contractor.

C. MISCELLANEOUS MATERIALS

"Miscellaneous Materials" are all other asbestos-containing materials in a school building that do not fall under the categories of Surfacing Materials or TSI. These include floor tiles, floor tile and carpet mastic, gypsum wallboard and joint compound, ceiling tiles, glue daubs, transite panels, laboratory counter tops, wallbase and associated glue, window caulking and glazing compounds etc. The following maintenance procedures are recommended for these materials:

Vinyl Asbestos Floor Tiles (VAT)

Vinyl Asbestos Floor Tiles (VAT) are considered non-friable, however routine maintenance procedures such as spray-buffing, burnishing, wet scrubbing, and stripping can generate asbestos fibers. Following procedures, when properly implemented, will reduce the potential of fiber release:

Do not sand, grind or abrade the tiles. Stripping of VAT should be done as infrequently as possible. When stripping becomes necessary, follow the appropriate work practices. Never perform dry stripping.

During spray-buffing or burnishing the floor, operate the machine at the lowest workable speed and use the least abrasive pad. Use a wet mop for routine cleaning whenever possible.
Routinely check whether chair and desk glides are in good condition and replace when necessary. Worn glides can gouge the floor and cause fiber release.
Place carpets/floor mats in all entrances to reduce abrasion of floor tiles by sand and pebbles.
During winter, have parking lots and walkways swept to the extent possible to avoid the tracking of salt and ice-melting compounds into the school by the students.
Train the custodial people who are responsible for care and maintenance of VAT. Please note that the repair/removal can only be performed by a licensed abatement contractor.

Transite Panels, Laboratory Counter Tops, Window Caulking and Glazing Compounds

Reduce the likelihood of fiber release.
Maintain transite panels, lab tabletops and window caulking and glazing compounds in undamaged condition

FUSS & O'NEILL
EnviroScience, LLC

APPENDIX E

AHERA CERTIFICATES

Commonwealth of Massachusetts

Division of Occupational Safety

Heather E. Rowe, Acting Commissioner

Asbestos Inspector

ROBERT L MAY JR.

Eff. Date 03/10/11
Exp. Date 03/27/12
AI041302
Member of C.O.N.E.S.
NB

12



NB-RENEWAL

Commonwealth of Massachusetts

Division of Occupational Safety

Heather E. Rowe, Acting Commissioner

Asbestos Designer

ROBERT L MAY JR.

Eff. Date 03/10/11
Exp. Date 03/27/12
AD041301
Member of C.O.N.E.S.
NB

12



NB-RENEWAL

Commonwealth of Massachusetts

Division of Occupational Safety

Heather E. Rowe, Acting Commissioner

Asbestos Management Planner

ROBERT L MAY JR.

Eff. Date 03/10/11

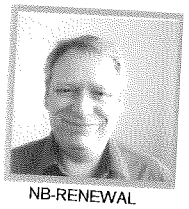
Exp. Date 03/27/12

AP041719

Member of C.O.N.E.S.

NB

12



NB-RENEWAL

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

16 Upton Drive Wilmington, MA 01887
PHONE (978) 658-5272

IEE IEE

This is to certify that

Robert May Jr.

has completed the requisite training, and has passed an examination for reaccreditation

Asbestos Designer Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

July 18, 2011
Examination Date

11-6166-128-218974
Certificate Number

July 18, 2011
Course Dates

Course Location
Institute for Environmental Education, Inc.
16 Upton Drive
Wilmington, MA 01887

July 18, 2012
Expiration Date

Training Director

Certificate of Training

Awarded to

ROBERT MAY JR

For successful completion of an 8 Hour, 1 Day

Asbestos Inspector & Management Planner

Annual Refresher Training

SEPTEMBER 30, 2011

This training was approved and given in accordance with Regulations for Connecticut State Agencies RCSA 20-440 - 1-9 and RCSA 20-441 and meets the requirements of the EPA Revised MAP under TSCA Title II of 4/4/94

Presented by

Mystic Air Quality Consultants, Inc.

1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: IMPR20375 **Exam Grade:** 100 **Exam Date:** 09/30/2011 **Expiration Date:** 09/30/2012

Christopher J. Eident, CIH, CSP, RS

George Williamson, Training Director

Richard Haffey, Training Director

Mystic Air Quality Consultants, Inc.

ASBESTOS INSPECTOR MANAGEMENT PLANNER RF

SEPTEMBER 30, 2011

STUDENT ROSTER for FUSS & O'NEILL ENVSC

NAME	SS #	CERTIFICATION #	GRADE
ROBERT MAY JR	044-74-7085	IMPR20375	100

Communications (24 hours):

Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746

website: www.mysticair.com e-mail:maqc2@aol.com

Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

October 12, 2011

FUSS & O'NEILL ENVSC MASS
50 RADFIELD ST
BOSTON, MA 02122

We want to thank you for selecting Mystic Air Quality Consultants as the training facility for the recent "ASBESTOS INSPECTOR MANAGEMENT PLANNER RF" Training Course on SEPTEMBER 30, 2011.

We affirm that the persons listed on the attached roster have faithfully participated in the course and achieved a passing grade on the examination. This entitles them to the training certificate whose number is located on the bottom left hand corner of the certificate and in the list that follows.

As you know this certification is not transferable and it is a violation of the laws to use this certification and the document for anyone other than the person who actually participated in the course and took the exam.

Please review the information on the certificate, to make sure all the information is correct. If you spot anything wrong, please call me right away.

We look forward to providing any other training you need in the future.

Sincerely,

Richard Haffey
President

Communications (24 hours):

Office: (860) 449-8903 FAX: (860) 449-8860 Toll Free: 1 (800) 247-7746

website: www.mysticair.com e-mail:maqc2@aol.com

Commonwealth of Massachusetts

Department of Labor Standards

Heather E. Rowe, Acting Director

Asbestos Inspector

DUSTIN A. DIEDRICKSEN

Eff. Date 04/28/11
Exp. Date 04/26/12
AI041867
Member of C.O.N.E.S.
NB

12



NB-RENEWAL

Commonwealth of Massachusetts

Department of Labor Standards

Heather E. Rowe, Acting Director

Asbestos Project Monitor

DUSTIN A. DIEDRICKSEN

Eff. Date 04/28/11
Exp. Date 04/26/12
AM041868
Member of C.O.N.E.S.
NB

12



NB-RENEWAL

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

16 Upton Drive Wilmington, MA 01887
PHONE (978) 658-5272

IEE

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This is to certify that

Dustin A Diedricksen

has completed the requisite training, and has passed an examination for reaccreditation

Asbestos Designer Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

July 18, 2011
Examination Date

11-6166-128-208040
Certificate Number

July 18, 2011
Course Dates

Course Location
Institute for Environmental Education, Inc.
16 Upton Drive
Wilmington, MA 01887

July 18, 2012
Expiration Date

Training Director

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

16 Upton Drive Wilmington, MA 01887
PHONE (978) 658-5272

IEE IEE

This is to certify that

Dustin A Diedricksen

has completed the requisite training, and has passed an examination for reaccreditation as:

Asbestos Inspector Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

January 26, 2011
Examination Date

11-6128-106-208040
Certificate Number

January 26, 2011
Course Dates

Course Location
Institute for Environmental Education, Inc.
16 Upton Drive
Wilmington, MA 01887

January 26, 2012
Expiration Date

Training Director

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

16 Upton Drive Wilmington, MA 01887
PHONE (978) 658-5272

IEE IEE

This is to certify that

Dustin A Diedricksen

has completed the requisite training, and has passed an examination for reaccreditation

Asbestos Project Monitor Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

September 08, 2011
Examination Date

11-6659-174-208040
Certificate Number

September 8, 2011
Course Dates

Course Location
Institute for Environmental Education, Inc.
16 Upton Drive
Wilmington, MA 01887

September 08, 2012
Expiration Date

Training Director

INSTITUTE FOR ENVIRONMENTAL EDUCATION, INC.

16 Upton Drive Wilmington, MA 01887
PHONE (978) 658-5272

IEE

IEE

This is to certify that

Dustin A Diedricksen

has completed the requisite training, and has passed an examination for reaccreditation

Asbestos Project Monitor Refresher

pursuant to Title II of the Toxic Substance Control Act, 15 U.S.C. 2646

September 08, 2011
Examination Date

11-6659-174-208040
Certificate Number

September 8, 2011
Course Dates

Course Location
Institute for Environmental Education, Inc.
16 Upton Drive
Wilmington, MA 01887

September 08, 2012
Expiration Date

Training Director