

October 8, 2013

Mr. Kevin Carney
Superintendent of Schools
Uxbridge Public Schools
62 Capron Street
Uxbridge, Massachusetts 01569

Re: Air testing and micro-vacuum dust sample results for the McCloskey Middle School, 62 Capron Street, Uxbridge, Massachusetts

Dear Mr. Carney:

On October 7, 2013, representatives of Smith & Wessel Associates, Inc. (SWA) were on-site at the McCloskey Middle School located at 62 Capron Street in Uxbridge, Massachusetts. SWA was requested to visit the site by Mr. Michael Legendre, Facilities Manager for the Uxbridge Schools. Mr. Legendre informed us that asbestos containing floor tiles were inadvertently removed in classrooms 219, 224 and 225 in August by a floor installer. Reportedly, the tiles were placed in containers and removed from the second floor to the elevator and out to a dumpster located at the rear of the building. Following review of the site, the Massachusetts Department of Environmental Protection (MA DEP) was contacted to report the event. MA DEP representative Mr. Donald Heeley visited the site to review conditions. During a meeting with school officials and SWA, Mr. Heeley requested that ambient air testing and dust sampling be conducted in the affected classrooms and associated corridors to determine for elevated airborne fiber concentrations and or asbestos in the latent dust. Mr. Heeley also indicated that the rooms and associated corridors be cleaned by qualified asbestos abatement personnel in accordance with a Work Plan as prepared by SWA and reviewed by the MA DEP and Massachusetts Department of Labor and Standards (MA DLS).

SWA's Massachusetts certified Asbestos Project Monitor, Asa Fayard (Cert. AM061902) collected the air and dust samples. The air samples were collected onto mixed cellulose ester filters (0.8 micron pore size) in three-piece 25-millimeter (mm) cassettes aligned open-faced. The cassettes were tilted downward at a 45° angle and placed between three and four feet above the ground. Air was drawn through the cassettes using high-volume sampling pumps. Immediately before and after the sampling periods the sampling flow rates were calibrated using a precision rotameter. Air samples were analyzed on-site using phase contrast microscopy (PCM) in accordance with National Institute of Occupational Safety and Health (NIOSH) 7400 Method, A-counting rules. SWA utilized the Olympus CH-2 optical microscope at 400x magnification for analyzing the samples. The PCM method determines the total concentration of all fibers (not exclusively asbestos) that exhibit a length to width ratio of greater than three and

are at least five microns in length. The PCM air sample results were compared to the strict standard of 0.01 fibers per cubic centimeter (f/cc) of air as established by the MA DLS for post-abatement air clearance. The results indicated that the airborne fiber concentrations were well below this criterion. All PCM air test results are included as Appendix A of this report.

To determine for asbestos in latent dust, SWA utilized micro-vacuum dust sampling (MVDS) techniques to collect the samples. This involves utilizing a high volume air pump and filter cassette to vacuum latent dust from affected surfaces. SWA vacuumed dust both horizontally and vertically from an approximate one square foot area on various surfaces throughout the areas of concern. The cassettes were labeled and delivered via proper chain of custody to EMSL Analytical, Inc. (EMSL) of Wallingford, Connecticut, a fully accredited asbestos analytical laboratory. EMSL analyzed the samples using Polarized Light Microscopy (PLM) in accordance with the requirements of 40 CFR Part 763, Subpart F, Appendix A. This analytical process determines for the presence of asbestos.

PLM results of the MVD samples indicate that no asbestos was detected in any of the latent dust collected in the representative spaces (See Appendix B). However, because the floor tiles were inadvertently removed without the use of engineering controls, a Massachusetts license Asbestos Abatement firm has been contracted to fully clean and decontaminate the impacted areas. This work is being conducted in accordance with a Work Plan (Plan) as developed by SWA's Asbestos Abatement Designer (Cert. AD035756). This Plan has subsequently been reviewed and approved by the MA DEP and MA DLS.

Following the cleaning of the spaces while under full-containment conditions, SWA's Technical Representative will conduct a visual inspection of the spaces. When deemed visually clean, SWA will collect air samples in the contained work areas to be delivered to EMSL to be analyzed via transmission electron microscopy (TEM) in accordance with the protocol and requirements of the United States Environmental Protection (US EPA) Asbestos Hazard Emergency Response Act (AHERA) Title 40 CFR Part 763 regulation. The average analytical result of the TEM samples must be less than 70 asbestos structures per square millimeter (70s/mm²).

Preliminary testing of the space did not identify the presence of any asbestos fibers in the latent dust nor any elevated airborne fiber concentrations

Should you have any questions or require further information, please do not hesitate to contact me.

Respectfully submitted,
Smith & Wessel Associates Inc.



Glenn Nelson
Operations Manager

APPENDIX A

PCM Air Test Results (PCM)

Air Monitoring Results for Total Fiber Concentration
 McCloskey Middle School
 Uxbridge, MA

Sample No.	Date	Sampling Period	Volume (liters)	Description/Location	Result (fibers/cc)
1.	10/8/13	NA	NA	Field Blank.	0 fibers/ 100 fields
2.	10/8/13	6:00 p.m. to 7:30 a.m.	1,000	Second floor, room 224	0.004
3.	10/8/13	6:01 p.m. to 7:33 p.m.	1,100	Second floor, room 225	<0.004
4.	10/8/13	6:03 9.m. to 7:38 p.m.	1,090	Second floor, room 219	0.004
5.	10/8/13	6:05 9.m. to 7:45 p.m.	1,190	Second floor, hallway outside room 218	0.004
6.	10/8/13	6:15 p.m. to 7:50	1,210	First floor, hallway in front of elevator lobby	0.003

APPENDIX B

Micro-Vacuum Dust Samples (MVD)



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
<http://www.EMSL.com> wallingfordlab@emsl.com

EMSL Order: 241304054
CustomerID: SMIT50B
CustomerPO:
ProjectID:

Attn: **Glenn Nelson**
Smith & Wessel Associates, Inc.
188 Greenville Street
Spencer, MA 01562


Phone: (978) 346-4800
Fax: (978) 346-7265
Received: 10/08/13 8:20 AM
Analysis Date: 10/8/2013
Collected:

Project: **Uxbridge Middle School**

Test Report: Qualitative Asbestos Analysis by Transmission Electron Microscopy (TEM) and Filtration Technique

Sample	Description	TEM Result	Notes
MUD-01 241304054-0001	Ground level, hallway floor @ rm 116	None Detected	
MUD-02 241304054-0002	Ground level, elevator lobby floor	None Detected	
MUD-03 241304054-0003	2nd floor, rm 219, school desk	None Detected	
MUD-04 241304054-0004	2nd floor, rm 225, teacher's desk	None Detected	
MUD-05 241304054-0005	2nd floor, rm 224, floor	None Detected	
MUD-06 241304054-0006	2nd floor, hallway floor @ rm 225	None Detected	
MUD-07 241304054-0007	Elevator car floor	None Detected	

Analyst(s)
Edward Leary (7)


Gloria V. Oriol, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This is a qualitative screen only. There is a chance for false negatives with this method. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Wallingford, CT

Initial report from 10/08/2013 14:20:28