

August 21, 2020

Mr. Todd Scott
Operations Coordinator
Oakwood City School District
20 Rubicon Road
Oakwood, Ohio 45409
(937) 297-5332

Re: Amended Report of Post Asbestos Abatement Clearance Activities and Environmental Air Monitoring Associated with Asbestos Abatement – Summer 2020

**Harman School
735 Harman Avenue
Oakwood, Ohio 45419**

DET Project Number: 20-166-008

Dear Mr. Scott:

Dayton Environmental Testing, LLC (DET) has completed environmental air monitoring and post-asbestos abatement clearance activities associated with the asbestos abatement work performed within three (3) regulated areas established inside the Harman School building located at 735 Harman Avenue in Oakwood, Ohio (Project Site).

A summary of the air samples collected during this project is provided in Attachment A. This summary includes the sample type, location, collection date, assigned sample numbers, and analytical results. The location of each regulated area is depicted on building floor plans in Attachment B.

ABATEMENT CONTRACTOR'S SCOPE OF WORK

The final scope of work performed within these three (3) regulated areas is summarized below:

- **Regulated Area 1 (Around Old Boiler located in Boiler Room)**
 - Removal of approximately 200 cubic feet of asbestos-containing material (ACM) boiler unit

- **Regulated Area 2 (2nd Floor Girl's Restroom, Room 8A)**
 - Removal of approximately 8 square feet of ACM mirror mastic
- **Regulated Area 3 (2nd Floor Boy's Restroom, Room 8B)**
 - Removal of approximately 8 square feet of ACM mirror mastic

Please note that removal of non-friable ACM (e.g. roof caulking and assembled flange assemblies with intact gaskets) did occur during this project; however, AHERA does not require air sampling for these types of activities.

Abatement activities were conducted by EnviroWorx Services, Inc.

SAMPLING METHODOLOGY

Clearance Activities

The post asbestos abatement clearance activities performed by DET included both visual inspection and clearance air sampling within each of the three (3) regulated areas. These activities were conducted in accordance with the Asbestos Hazard Emergency Response Act (AHERA). In Ohio, these inspections must be performed by an Asbestos Hazard Evaluation Specialist certified by the Ohio Environmental Protection Agency (OEPA).

On June 3, 2020, DET Environmental Specialist Kenneth Lee (Ohio-certified Asbestos Hazard Evaluation Specialist # ES35910) conducted a thorough visual inspection of each of the three (3) regulated areas prior to the collection of clearance air samples. During the visual clearance inspections, the DET inspector determined that each regulated area was free of visible ACM debris and that the specified ACM had been adequately removed.

Following the visual inspections, Mr. Lee proceeded to collect five (5) air samples from inside each of the three (3) regulated areas, using aggressive techniques.

For Regulated Area 1, the samples were collected utilizing high-volume air pumps and 25 mm cassettes with 0.45 micron mixed cellulose ester (MCE) filters. The sample pumps ran for one hundred and thirty (130) minutes at a calibrated-rate of nine and a half (9.5) liters per minute (LPM) for a total volume of one thousand two hundred and thirty-five (1,235) liters of air passing through each sample cassette.

For Regulated Areas 2 and 3, the samples were collected utilizing high-volume air pumps and 25 mm cassettes with 0.8 micron MCE filters. The sample pumps ran for one hundred and eighty (80) minutes at a calibrated-rate of fifteen (15) liters per minute (LPM) for a total volume of twelve-hundred (1,200) liters of air passing through each sample cassette.

Environmental Air Monitoring

During abatement activities, DET collected environmental air samples outside regulated areas to monitor the effectiveness of work practices and engineering controls utilized by the abatement contractor to contain fibers and prevent their migration to other areas of the building.

Environmental air samples were collected utilizing high-volume air pumps and 25 mm cassettes with 0.8 micron mixed cellulose ester (MCE) filters at a calibrated-rate of two (2) LPM.

At the request of the School District and upon completion of all construction-related asbestos abatement activities, DET returned to the Project Site on August 20, 2020 to collect a total of 3 environmental air samples within various areas of the building.

These samples on August 20, 2020 were collected utilizing high-volume air pumps and 25 mm cassettes with 0.45 micron mixed cellulose ester (MCE) filters. The sample pumps ran for one hundred and thirty (130) minutes at a calibrated-rate of nine and a half (9.5) liters per minute (LPM) for a total volume of one thousand two hundred and thirty-five (1,235) liters of air passing through each sample cassette.

LABORATORY ANALYSIS

Final Air Clearance Samples

Final clearance air samples collected from Regulated Area 1 were transported, under chain of custody, to McCall and Spero Environmental, Inc. (McCall and Spero) in Louisville, Kentucky for analysis. McCall and Spero is fully accredited by the National Voluntary Laboratory Accreditation Program (NVLAP # 101895-0), the agency sponsored by the National Institute of Standards and Technology providing EPA accreditation of laboratories providing analysis of airborne asbestos fiber analysis.

Samples from Regulated Area 1 were analyzed using Transmission Electron Microscopy (TEM) microscopy procedures as described in the AHERA.

Final clearance samples collected from Regulated Areas 2 and 3 were transported, under chain of custody, to Schneider Laboratories Global, Inc. (Schneider) in Richmond, Virginia for analysis. Schneider maintains current proficiency with the American Industrial Hygiene Association's Proficiency Analytical Testing (AIHA PAT) program.

Samples from Regulated Areas 2 and 3 were analyzed by Phase Contrast Microscopy (PCM) using the NIOSH 7400 Method "Asbestos and Other Fibers by PCM" as required by the AHERA.

Environmental Air Monitoring Samples

All environmental air samples collected were transported, under chain of custody, to Schneider for analysis.

Samples were analyzed by PCM using the NIOSH 7400 Method “Asbestos and Other Fibers by PCM” as required by the AHERA.

The environmental air samples collected on August 20, 2020 were transported, under chain of custody, to McCall and Spero, where they were analyzed using TEM microscopy procedures as described in the AHERA.

ANALYTICAL RESULTS AND CONCLUSIONS

Final Clearance Air Samples

Laboratory analysis of the air samples collected from Regulated Area 1 had an average in-air asbestos structure concentration below the specified AHERA clearance level of seventy (70) structures per square millimeter (s/mm²) (40 CFR Part 763).

Laboratory analysis of the air samples collected from Regulated Areas 2 and 3 indicated that each sample had a fiber concentration below the specified AHERA clearance level of 0.01 fibers per cubic centimeter of air (40 CFR Part 763).

Based on these findings, abatement work within these regulated areas is considered complete.

Environmental Air Monitoring Samples

Laboratory analysis of the environmental air samples collected during this project indicated fiber levels detected at each sample location were either below or slightly above the method's estimated limit of detection, and well below any levels that would be considered elevated.

No asbestos structures were detected in any of the three (3) environmental air samples collected from the building on August 20, 2020.

Based on laboratory results and visual observations, it is DET's opinion that the work practices and engineering controls utilized by the abatement contractor were effective in containing fibers generated by their work to each regulated area and prevented fiber migration to other areas of the building.

Thank you for allowing us the opportunity to provide this service to you and the Oakwood City School District. Please do not hesitate to contact us should you have any questions regarding this report, or if we may be of further assistance to you.

Respectfully yours,

Dayton Environmental Testing, LLC



Michael B. Lee
Senior Project Manager
Ohio-certified Asbestos Hazard Evaluation Specialist # ES34954

ATTACHMENTS

- A – Summary of Final Air Clearances and Environmental Air Monitoring
- B – Building Floor Plans Depicting Locations of Regulated Areas
- C – Laboratory Analytical Reports
- D – Equipment Calibration Record(s)
- E – Accreditations of Assessors and Laboratories