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Final Clearance Air Monitoring Report

Client: Gary Mannette
Halifax Regional School Board
33 Spectacle Lake Drive
Dartmouth, Nova Scotia
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Project: 24945
Location: Shannon Park Elementary School
Shift: N/A
Date: January 20th, 2019
Report #: 03

Summary:

Air monitoring was performed within rooms 142, 145, under back stairwell, and an area at the top of the back stairwell after penetrations were made in asbestos containing plaster to facilitate ceiling access in the area. Results of the air monitoring show that the samples were below all applicable guidelines and the area is safe for occupancy.

1. Details to be noted:

On January 20th, 2019, Tyler Briand of ALL-TECH Environmental Services Limited collected five (5) final clearance air samples inside the enclosures (<270 m³) constructed within various rooms and areas of the Shannon Park Elementary School located at 75 Iroquois Drive in Dartmouth, Nova Scotia. The inspection that verified the enclosures to be ready for final clearance air testing was performed by Belfor. The final clearance air samples were collected to demonstrate that airborne fibers were below 0.01 f/cc at the time of testing.

During final air clearance sampling, aggressive techniques (forced air) were utilized to disturb any loose fibers from all surfaces within the work enclosure to ensure a representative sample of all potential fibers within the area were collected. Please see below for results.

2. Sample Protocol:

During samples collection, the NIOSH 7400 Method was followed. The samples were collected on 3-piece, 25mm cellulose-ester sampling cassettes with a pore size of 0.8µm. The air-sampling pumps used to collect the air samples were Gastec® Medium Volume Air Sampling Pumps. Prior to air sampling, the pumps were calibrated using a TSI® Primary Calibrator Model #4146, Serial No. 414608446012 (NIST Traceable).

3. Air Monitoring Results:

Sample Number	Date of Collection	Time of Collection	Sample Duration (Minutes)	Flow Rate (LPM)	Sample Volume (Litres)	Sample Location / Description	Results (F/cc)
27-076	January 20 th , 2019	1:25 pm	83	15.0	1245	Inside Enclosure – Classroom 145 (<270 m ³) / Final Clearance Air Sample	<0.01
27-077	January 20 th , 2019	1:27 pm	82	15.0	1230	Inside Enclosure – Classroom 142 (<270 m ³) / Final Clearance Air Sample	<0.01
27-078	January 20 th , 2019	1:32 pm	88	15.0	1320	Inside Enclosure – Classroom 142 (upper area) (<270 m ³) / Final Clearance Air Sample	<0.01
27-079	January 20 th , 2019	1:45pm	83	15.0	1245	Inside Enclosure – Under back stairwell (<270 m ³) / Final Clearance Air Sample	<0.01
27-080	January 20 th , 2019	1:50 pm	80	15.0	1200	Inside Enclosure – Area at Top of Stairwell (<270 m ³) / Final Clearance Air Sample	<0.01

Results of air testing indicate airborne levels of fibres to be below 0.01 F/cc, or Fibres per Cubic Centimetre as set by the Province of Nova Scotia's Department of Labour and Advanced Education, Code of Practice "A Guide to Removal of Friable Asbestos Containing Material", Section 8, Sub-section 5 (Nov. 21, 2013).

The above noted samples were analyzed using the **NIOSH 7400 Method, (Asbestos and Other Fibres by PCM), following "A" Counting Rules**. NIOSH states in section titled APPLICABILITY that "This method gives an index of airborne fibres. It is primarily used for estimating asbestos concentrations, though PCM does not differentiate between asbestos and other fibres. This method will not detect fibres <0.25µm in diameter".

If you have any questions or comments regarding the above noted results, please feel free to contact our office at your convenience.

Thank you and have a great day,

A handwritten signature in black ink, appearing to read 'Tyler B.', with a long horizontal flourish extending to the right.

Tyler Briand
Environmental Technician
ALL-TECH Environmental Services Ltd.