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Final Clearance Air Monitoring Report

Client: Justin Merritt Inflector Environmental Services 196 Hobsons Lake Drive Halifax, Nova Scotia B3S 0G4	Project #: 30138 Location: Room 9 Enclosure - Bicentennial Shift: N/A Issue Date: December 2, 2022 Report #: 04
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1.0 DETAILS TO BE NOTED

On December 2nd, 2022, Tyler Briand of ALL-TECH Environmental Services Limited (ALL-TECH) collected one (1) final clearance air sample for airborne asbestos analysis from within the enclosure (<270 m³) constructed within Room 9 of Bicentennial School, located at 85 Victoria Road in Dartmouth, Nova Scotia. The final clearance air sample was collected after abatement activities to demonstrate that the airborne fiber concentration was less than 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. See Table 1.0 for results.

2.0 REGULATIONS AND GUIDELINES

2.1 American Conference of Governmental Industrial Hygienists Threshold Limit Value for Asbestos

Occupational airborne exposure limits set by the Province of Nova Scotia follow airborne standards set by the American Conference of Governmental Industrial Hygienists (ACGIH) when dealing with asbestos. Their limit for asbestos exposure is asbestos, all forms 0.1 f/cc (2022). The limit of 0.1 f/cc is known as a Threshold Limit Value (TLV) and is based on a time weighted average (TWA) exposure of 8 hours as determined by air sampling following the NIOSH 7400 Asbestos and Other Fibres by Phase Contrast Microscopy.

2.2 Canada Occupational Health and Safety Regulations SOR/86-304

The Canada Occupational Health and Safety Regulations (SOR/86-304) states that final clearance air samples must be as close to zero as possible, and in any event shall not exceed the ACGIH TLV (0.1 f/cc).

2.3 Asbestos in the Workplace: A Guide to Removal of Friable Asbestos Containing Material - Nova Scotia Code of Practice

Where dry or wet asbestos removal is conducted, a glove bag is not used, and the air from inside the enclosure is exhausted to an indoor area that is outside of the enclosure, daily sampling for airborne asbestos fibres must be conducted outside of the enclosure and immediate action must be taken if the concentration of airborne asbestos is found to exceed 0.01 f/cc of air in an indoor area that is outside the enclosure. Final clearance air samples must be <0.01 f/cc.

3.0 SAMPLING PROTOCOL

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

4.0 AIR MONITORING RESULTS

Table 1.0
Final Clearance - PCM Air Monitoring Results
Bicentennial School
December 2nd, 2022

Sample Number	Date of Collection	Time of Collection	Sample Duration (Min)	Flow Rate (LPM)	Sample Volume (Litres)	Sample Location / Description	Results (F/cc)
42-588	December 2 nd , 2022	12:55 pm	80	15.0	1200	Room 9 - Within Enclosure Final Clearance Air Sample	<0.01*

* Indicates sample was less than the limit of detection.

5.0 AIR MONITORING CONCLUSIONS

The above noted sample was analyzed using the NIOSH 7400 Method, (Asbestos and Other Fibres by PCM), following "A" Counting Rules. NIOSH states in the 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".

Results of the analysis indicate that the sample was **below the final clearance criteria of 0.01 f/cc.**

6.0 COMMENTS/RECOMMENDATIONS

N/A

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,



Tyler Briand
Environmental Technician
ALL-TECH Environmental Services Ltd.