

Project Experience

Asbestos Encapsulation



Certificate of Analysis



Report Number: 45-1427-01-81
 Date of Report: 28/9/2016
 Date of Analysis: 28/9/2016
 Site Address: Flanshaw Road
 Te Atatu Auckland 0610
 Client Name: Auckland Management New Zealand Limited
 Client Address: 90 Lambeth Road
 Sandringham Auckland 1041

Client Contact: Greg Folan
 Sample By: Mitchell Mills
 Approved Identifier: Nathan Cross
 Approved Signatory: Ryan Hackenberg

Test Method: Asbestos identification in bulk samples by polarized light microscopy and dispersion staining, in accordance with AS4964-2004 Method for the Qualitative Identification of Asbestos in Bulk Samples and Clearsafe Method SOP.D.01 [Detection Limit = 0.1g/kg (AS-064)].

Notes: The results contained within this report relate only to the samples tested. This report should not be copied, presented or reviewed except in full.
 An independent analytical laboratory is recommended for confirmation of vinyl and bituminous samples, or samples in which Unknown Mineral Fibres is detected.
 NATA accreditation relates to the analysis of the sample(s) and does not cover the sample collection process.

Sample Number	Sample Reference / Location	Description **	Result *
45-1427/1	Internal - west end, ceiling, surface swab	Contact Sample, No Visible Fibres, Sample Size: 2000grams	No Asbestos Detected
45-1427/2	Internal - centre, ceiling, surface swab	Contact Sample, No Visible Fibres, Sample Size: 2000grams	No Asbestos Detected
45-1427/3	Internal - east end, ceiling, surface swab	Contact Sample, No Visible Fibres, Sample Size: 2000grams	No Asbestos Detected

* Result Codes:
 1 - Chrysotile Asbestos Detected
 2 - Amosite Asbestos Detected
 3 - Crocidolite Asbestos Detected
 4 - Unknown Mineral Fibres Detected
 5 - Synthetic Mineral Fibre (SMF) Present
 6 - Organic Fibres Present
 7 - No Asbestos Detected
 8 - Organic Fibres Present

** Description Codes:
 PCB - Fibrous Cement Rendering VPT - Vinyl Floor Tile

NATA Accredited Laboratory No. 18542
 Accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and measurements included in this document are traceable to Australian / national standards.

Project Information

location	New Zealand
client	Auckland Watercare
project	Te Atatu Pump Station
date of project	August 2016
climatic conditions	Summer 25°C Humidity 80 – 93%
substrate	Concrete/Asbestos
surface preparation	Dry-Ice Blasting
system	MCU-Miomastic MCU-Miotopcoat

The Te Atatu Pump Station concrete roof had been coated with an asbestos speckle fire resistant coating in the 1980's. This had created an asbestos contamination problem after an attempt was made to remove it via dry-ice blasting.

Auckland Watercare chose to apply MCU-Coatings to encapsulate the previous coating for various reasons:

- its ability to be applied without the need of abrasive cleaning methods, which is not allowed due to New Zealand safety regulations
- the ability for MCU-Miomastic to penetrate deep into the concrete roof and thus encapsulate the fibres in a polyurea coating. This effectively prevented the fibres from becoming friable even if the concrete were to be compromised or scratched
- the rapid cure and need to complete the project in a short project time frame
- the ability that the coating has to flex with the expansion and contraction of the concrete roof without cracking or peeling

The Clearsafe Environmental Solutions 'Certificate of Analysis', copied above, confirms that the encapsulation has been independently tested and there is no evidence of asbestos fibres in their test samples.