ASBESTOS ANALYTICAL REPORT

Report Number 622.10968.00030-R01-v0.1-ANA-MackayOoralea

Client:	Central Queensland University - Rockhampton
Client Contact:	Grant Farrell
Client Address:	Bruce Highway, Rockhampton, QLD 4702
Date Sampled:	2-4 August 2017
Report Date:	17 August 2017
Site Address/ Location:	CQ University Campus - Mackay Ooralea
Test Methods:	Sample(s) examined under a Polarised Light Microscope including dispersion staining techniques, in accordance with AS 4964 and method AIP.01.03

Accredited for compliance with ISO/IEC 17025.

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. NATA is a signatory to the APLAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

Results

Sample No.	Description	Analysis Result
5-842	Fibre cement	Organic Fibres
5-843	Fibre cement	Organic Fibres
5-844	Fibre cement	Organic Fibres
5-845	Fibre cement	Organic Fibres
5-846	Fibre cement	Organic Fibres
5-847	Fibre cement	Organic Fibres
5-848	Fibre cement	Organic Fibres
5-849	Fibre cement	Organic Fibres
5-850	Fibre cement	Organic Fibres
5-851	Fibre cement	Organic Fibres
5-852	Fibre cement	Organic Fibres
5-853	Fibre cement	Organic Fibres
5-854	Fibrous Material	SMF
5-855	Fibre cement	Organic Fibres
5-856	Fibre cement	Organic Fibres
5-857	Fibre cement	Organic Fibres
5-858	Fibre cement	Organic Fibres
5-859	Fibre cement	Organic Fibres
5-860	Fibre cement	Organic Fibres
5-861	Fibre cement	Organic Fibres
5-862	Fibre cement	Organic Fibres
5-863	Fibre cement	Organic Fibres
5-864	Fibre cement	Organic Fibres
5-865	Fibre cement	Organic Fibres
5-866	Fibre cement	Organic Fibres
5-867	Fibre cement	Organic Fibres
5-868	Fibre cement	Organic Fibres
5-869	Fibre cement	Organic Fibres
5-870	Fibre cement	Organic Fibres

Please direct correspondence to:

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5-871	Fibre cement	Organic Fibres
5-872	Fibre cement	Organic Fibres
5-873	Fibre cement	Organic Fibres
5-874	Fibre cement	Organic Fibres
5-875	Fibre cement	Organic Fibres
5-876	Fibre cement	Organic Fibres
5-877	Fibre cement	Organic Fibres
5-878	Fibre cement	Organic Fibres
5-879	Fibre cement	Organic Fibres
5-880	Fibre cement	Organic Fibres
5-881	Fibre cement	Organic Fibres
5-882	Fibre cement	Organic Fibres
5-883	Fibre cement	Organic Fibres

Fibre identification Legend

AMO	Amosite (brown/grey asbestos)	ORF	Organic Fibre
BIT	Bitumen	NAD	No Asbestos Detected
CHR	Chrysotile (white asbestos)	NFD	No Fibres Detected
CRO	Crocidolite (blue asbestos)	SMF	Synthetic Mineral Fibre
INS	Insulation	UMF	Unknown Mineral Fibres

Notes:

- Sampling was undertaken by SLR Consulting.
- The results contained within this report relate only to sample(s) submitted for testing.
- The report(s) and/or information produced by SLR Consulting Australia Pty Ltd should not be reproduced and/or presented/reviewed except in full.
- Even after disintegration of some bulk samples (eg bituminous materials and vinyl tiles/sheeting) detection of fibres may be difficult when using polarized light microscopy and dispersion staining techniques. This may be due to the matrix of the samples (uneven distribution) or fine fibres that are difficult to detect and positively identify.
- Detection Limit - 0.1 g/kg (AS 4964).
- An Independent Analytical Technique is Recommended for Vinyl Samples (i.e. Vinyl Floor Tiles).

Andrew Lynam
BEnvSc

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Limitations

Thus, while we carry out the work to the best of our ability, we totally exclude any loss or damages which may arise from services we have provided to Central Queensland University - Rockhampton and/or associated parties.

The analysis was undertaken by SLR Consulting, 2 Lincoln Street, Lane Cove NSW 2066 (NATA Accreditation No. 3130).

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Limitations

Due to the nature of the task all asbestos surveys are limited. Since asbestos can occur in so many forms and in so many locations, and as there is no instrument to detect asbestos, it is never possible to guarantee all asbestos has been identified. Access is usually restricted, and there may be asbestos hidden behind walls or other structures. Building plans are of great assistance to consultants undertaking surveys.

Asbestos Register

An asbestos register is a record of the location, type and condition of all asbestos containing products identified in a building. Under the Safe Work Australia Codes of Practice and the legislation, any place of work constructed prior to 31 December 2003 must have an Asbestos Register. A SLR Asbestos Survey Report includes an asbestos register.

Registers must be maintained and changes in the condition or extent of any asbestos present should be recorded. Registers should also detail the next review date, at present annually since the condition of asbestos materials, legislation, guidelines and standards change.

Management Plan

An asbestos management plan is required where asbestos materials have been identified and are to remain on site. The plan would normally be a component in the overall Hazard Management Plan for the site.

Control Options

Asbestos judged to constitute a health risk should be removed, enclosed or encapsulated by an approved asbestos contractor.

Enclosure

This involves the installation of a permanent, solid, non-porous, impervious barrier between the asbestos material and the surrounding environment. Examples include building boxes around steam pipes etc. A suspended ceiling is not permanent and, since occasional access is necessary above a suspended ceiling, enclosure is negated. Furthermore, many suspended ceilings act as return air plenums so enclosure is impossible.

Encapsulation

Encapsulation involves coating the material with a sealant. Good sealants penetrate through the asbestos material to the substrate. The encapsulating substance then hardens and binds all the asbestos fibres into a solid matrix. This is usually a short to medium term management option.

Removal

Removal is not without hazards to the occupants of the building. If not strictly controlled, the removal process can result in increased fibre counts in other areas. Technical competence, experience and integrity are of prime importance in evaluating asbestos removal plans.

We advise clients to work within the usual practised time frames of the experienced asbestos removal companies under strict supervision by a qualified person. Pressing for quicker turnaround times may result in low quality workmanship and unnecessary asbestos risk. Building owners may be in part responsible for risks created by the removal Contractor due to carelessness or negligence.

An independent consultant such as SLR, experienced in the supervision of asbestos removal, should be retained to act on the client's behalf.

Clearance Inspection

A clearance inspection must be conducted at the completion of asbestos removal works. The clearance inspection may include airborne asbestos monitoring and/or sampling/analysis of materials and should be completed by a suitably qualified and experienced consultant, such as SLR.