



COMPLIANCE ASBESTOS RE-INSPECTION AND RISK ASSESSMENT

NOVEMBER 2021

Report Reference:

J033461

Client:

C126956 CQ University Australia



Address:

ROCKHAMPTON NORTH CAMPUS_CQIRP Building 365 - Furnace
Bruce Highway
ROCKHAMPTON NORTH QLD
4700

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Document Control

Document Quality Management Details		
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Site Details:	ROCKHAMPTON NORTH CAMPUS_CQIRP Building 365 - Furnace, Bruce Highway, ROCKHAMPTON NORTH QLD	
Project Number:	J033461 V1	
Client Name:	C126956 CQ University Australia	
Signatures:	Prepared By: Daniel Tuckett  Consultant QLD LAA001461 24 Dec 2021	Reviewed and Authorised By: Robert Dear  Practice Manager - 12 Jan 2022

Glossary of Terms / Acronyms

AC	<i>Asbestos Cement</i>
ACM	<i>Asbestos-containing Material</i>
Asbestos Insulation Board (AIB)	<i>Low Density Board (LDB)</i>
Assumed	<i>Item status is based on a visual assessment</i>
Class A Unrestricted Licensed Removalist	<i>Can remove any amount or quantity of friable, non-friable asbestos and asbestos-containing dust</i>
Class B Restricted Licensed Removalist	<i>Can remove any amount or quantity of non-friable asbestos and any amount of asbestos-containing dust associated with the removal of non-friable asbestos</i>
Controlled Conditions	<i>Use of PPE, RPE & Appropriate Controls</i>
Friable Asbestos	<i>ACM in powder form, or able to be crumbled, pulverised, or reduced to a powder by hand pressure when it is dry</i>
Fully Controlled Conditions	<i>Within an Enclosure Under Negative Pressure</i>
LAA	<i>Licensed Asbestos Assessor</i>
LARC	<i>Licensed Asbestos Removal Contractor</i>
Non-Friable Asbestos	<i>ACM in a bonded matrix that when dry may not be crumbled, pulverised or reduced to powder by hand pressure.</i>
ODS	<i>Ozone Depleting Substance</i>
PCB	<i>Polychlorinated Biphenyls</i>
Strongly Assumed	<i>Item is similar in appearance to another already sampled item and therefore its item status</i>
SMF	<i>Synthetic Mineral Fibre</i>

Introduction

This report presents the findings of a Compliance Asbestos Re-Inspection and Risk Assessment conducted for C126956 CQ University Australia of the site ROCKHAMPTON NORTH CAMPUS_CQIRP Building 365 - Furnace, Bruce Highway, ROCKHAMPTON NORTH QLD. The site Compliance Asbestos Re-Inspection and Risk Assessment was commenced by Daniel Tuckett on 16 Nov 2021

This report is a re-inspection of the most recent report conducted by SLR Global Environmental Solutions (Ref: 622.10968.00000/0040-R01-V01-ASR-Bid 365).

The objective of the assessment was to identify and assess the risks associated with the suspected Asbestos materials at the site and update the Asbestos Register.

This report was performed in accordance with:

- | Work Health and Safety Regulation 2011 (Qld)
- | How to manage and control asbestos in the workplace Code of Practice, WorkSafe Qld, 2021

Scope of Works

The scope of works for this project was as follows:

- | Asbestos Re-inspections across 8 Campus's - Bundaberg Emerald & Clermont Gladstone City Gladstone Marina Macky City Macky Ooralea Rockhampton City Rockhampton North
- | Inspect representative and accessible areas of the site to identify Asbestos materials.
- | Identify the likelihood of Asbestos in inaccessible areas.
- | Identify the types of Asbestos material, their location, friability, extent, condition and disturbance potential.
- | Assess the risks posed by the Asbestos materials.
- | Collect samples of suspected Asbestos materials.
- | Take photographs of suspected Asbestos materials.
- | Compile an Asbestos Register for the site.
- | Recommend control measures and actions necessary to manage any Asbestos material related risks.

Refer to [Methodology](#) section of report for full details.

Site Description

The site consists of 1 building/s.

Building Reference	365 Furnace
Building Description	Furnace
Construction Type	Concrete, metal
Est. Building Construction Date	1980
Number of Levels	1
Est. Total Area Surveyed (m ²)	60

Site Asbestos Risk Profile

The following table provides a summary of the Asbestos Risk Assessment for the site; item-specific findings are presented in the Asbestos Materials Register.

Area	Number of Items by Risk Rating			
	High	Medium	Low	Very Low
365 Furnace - Ground Floor	0	0	0	0
TOTAL	0	0	0	0

Site Asbestos Control Priority Profile

The following table provides a summary of the Asbestos Control Priority Risk Assessment for the site; item-specific findings are presented in the Asbestos Materials Register.

Area	Number of Items by Priority Risk Rating			
	P1	P2	P3	P4
365 Furnace - Ground Floor	0	0	0	0
TOTAL	0	0	0	0

Summary of Identified Items

The following table provides a general overview of the types of asbestos materials identified on site; specific findings are presented in the Asbestos Materials Register.

Building Level	Asbestos	
	Friable	Non Friable
365 Furnace - Ground Floor	No	No

Items Requiring Remediation

The following items were found to be either damaged or in a condition which require control measures to reduce the risk of exposure to asbestos fibres.

Item No.	Hazard Type	Item Location and Description	Recommendations
At the time of the site inspection no items were identified that required immediate remediation			

Refer to [Recommendations](#) section of this report for further Asbestos Materials management details.

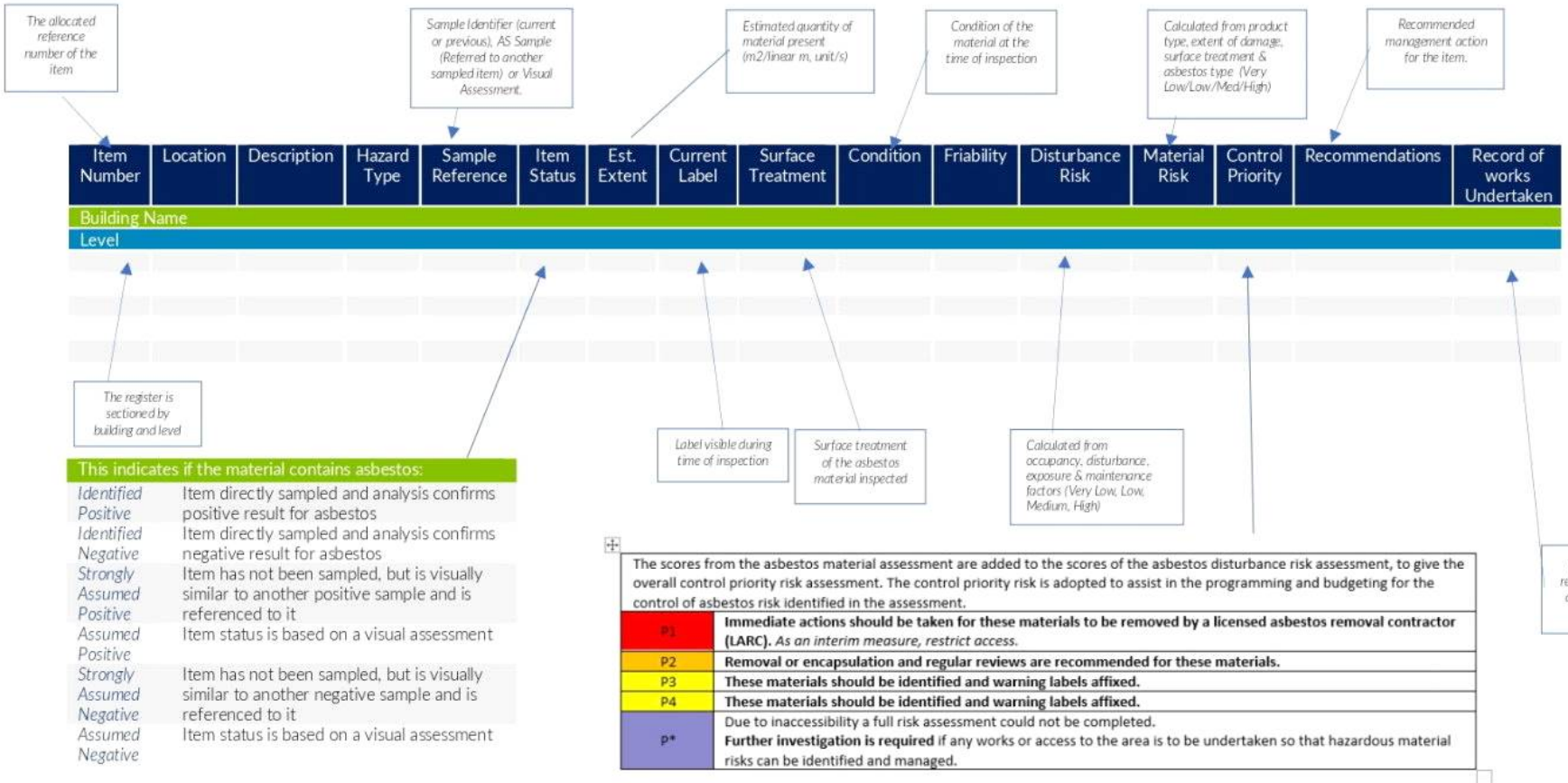
Recommendations

Greencap Brisbane can assist with the implementation of any of the below recommendations:

- | Asbestos containing materials were not identified within the scope of the inspection and subject to the limitations outlined within this report.
- | Areas Not Accessed highlighted in this report must be assumed to contain hazardous materials. Appropriate management planning should be implemented to control access to and maintenance activities in these areas, until such a time as they can be inspected, and the presence or absence of hazardous materials can be confirmed
- | Prior to demolition or refurbishment works, engage a competent person to undertake a destructive hazardous materials inspection of the premises as per relevant Legislation, Codes of Practice and Australian Standards.



How to use: Greencap Compliance Asbestos Reinspection Register



Asbestos Materials Register

ROCKHAMPTON NORTH CAMPUS_CQIRP Building 365 - Furnace, Bruce Highway, ROCKHAMPTON NORTH QLD, 4700

Audit Date 16 Nov 2021

In Line with Asbestos regulations Greencap recommends this register is reviewed every 5 years at a minimum.

Item No	Location / Description	Hazard Type	Sample No.	Item Status	Est. Extent	Current Label	Condition	Friability	Disturbance Risk	Material Risk	Control Priority	Recommended Action	Record of Works
1	365 Furnace - Ground Floor - Furnace, South elevation												
	Gaskets - Attached to furnace	Asbestos	1-294 {AO000172}	Identified, Positive	-	No	-	-	-	-	-	No further action required	Removed - No Clearance Report
2	365 Furnace - Ground Floor - Furnace, Rear Door												
	Furnace Internal - Insulation material	Asbestos	1-295 {TPS000347}	Identified, Negative	-	-	-	-	-	-	-	No further action required	

Areas not Accessed

It is noted that hazardous materials may be contained within or behind those areas identified in the below table. Caution should be exercised when accessing these areas, particularly in relation to potential disturbance of the building fabric or concealed spaces.

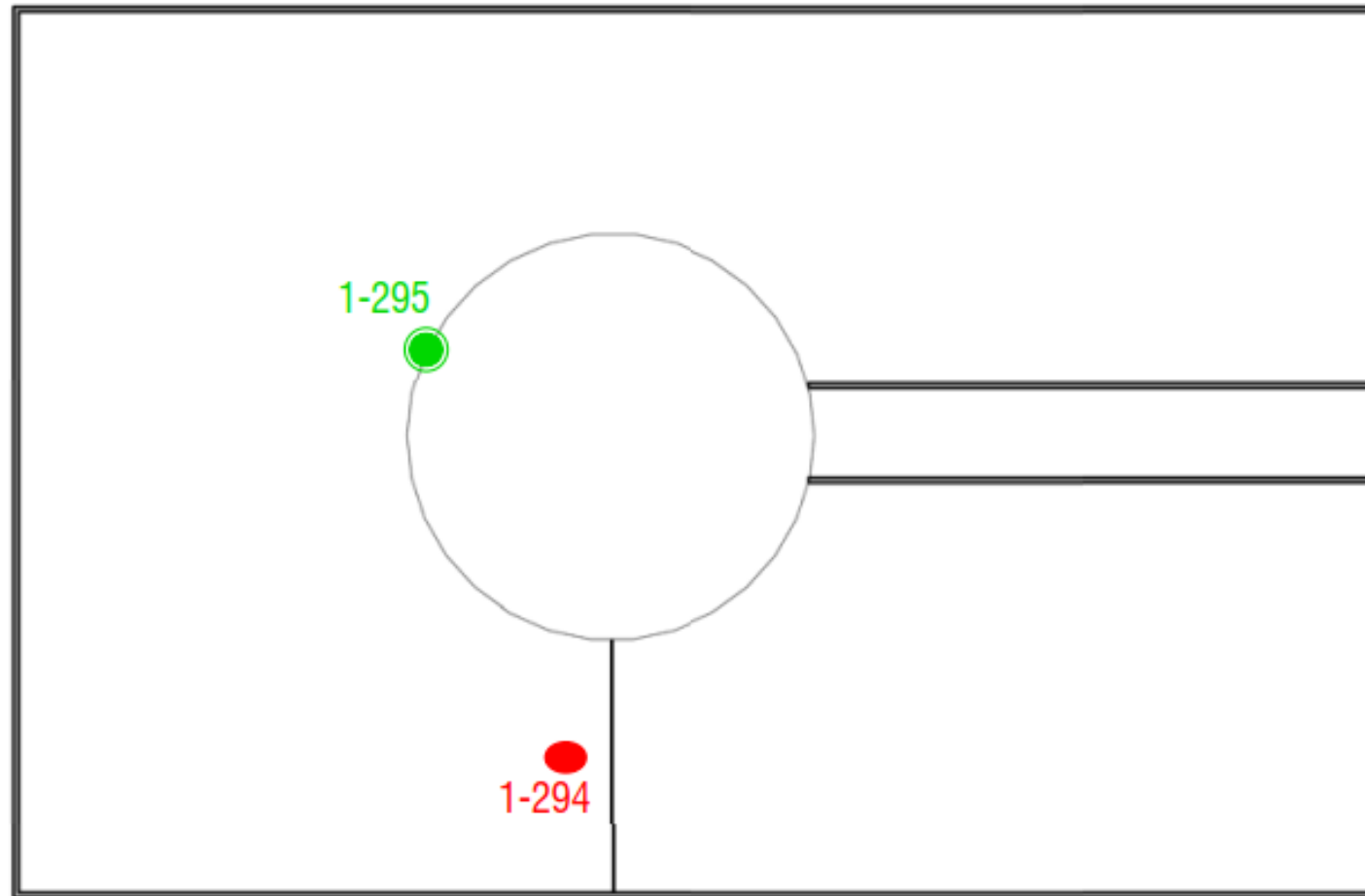
Area Not Accessed	Comments
All areas were accessed.	

The following areas were either partially accessed with representative areas inspected or were considered outside the scope of works and not accessed. Caution should be exercised when accessing these areas, particularly in relation to potential disturbance of the building fabric or concealed spaces.

365 Furnace		
ITEM	NOT ACCESSED	COMMENT
Air Conditioning Re-Heat Boxes	All	Outside scope
Areas Where No Asbestos Was Previously Identified	All	Outside scope
Behind Ceramic Wall Tiles and Wall Cladding	All	Outside scope
Beneath & Within Floor Slabs and Footings	All	Outside scope
Beneath Floor Coverings	All	Outside scope
Ceiling Spaces	All	Outside scope
Construction/Expansion Joints	All	Outside scope
Culverts, Floor Trenches & Tunnels	All	Outside scope
Electrical Switchboards, Fuse Boards, Meter Boards and Distribution Boards	All	Outside scope
Fire Door Cores & Fire Rated Door Frames	All	Outside scope
Gaskets, Mastics & Sealants to Pipework, Ductwork, Mechanical Equipment	All	Outside scope
Height Restricted Areas	All	Outside scope
Inside Mechanical Equipment	All	Outside scope
Internal & External Areas of the Building (s) not Considered Within the Scope of Works	All	Outside scope
Lift Shaft, Landing Doors, Cabin Fittings and Doors to All Levels	All	Outside scope
Partition Wall Cavities	All	Outside scope
Penetrations / Behind Fire Seals	All	Outside scope
Roof	All	Outside scope
Subterranean Areas, i.e., Below Ground Surface Level	All	Outside scope
Wall Cavities	All	Outside scope
Waterproof Membranes and Sealants	All	Outside scope

Register Item Details

No positive items were identified within the scope of this inspection.



LEGEND:



Sample location.
No Asbestos Detected

NOT TO SCALE - FOR DIAGRAMMATIC PURPOSES ONLY



CLIENT: CQ University Australia

SITE ADDRESS: CQIRP - 630 Ibis Avenue, Kawana QLD 4701

CLIENT No.: C126956

JOB No.: J033461

AREA: Furnace 365 - Ground Level

DATE: 16/11/2021

SURVEYOR: Daniel Tuckett

DRAWN BY: Daniel Tuckett

PLAN TYPE: Asbestos

Note: Plans not to scale & must be used in conjunction with site Asbestos Management Plan

PAGE: 1 of 1

Methodology

Asbestos

This assessment was undertaken within the constraints of the scope of works in accordance with Greencap in-house procedures:

- | Work Health and Safety Regulation 2011 (Qld)
- | How to manage and control asbestos in the workplace Code of Practice, WorkSafe Qld, 2021

No samples of suspected asbestos-containing material were collected.

Where it was determined that asbestos was present or assumed to be present, a risk and priority assessment was conducted in accordance with Greencap's standard Risk Assessment and Priority Ranking System. Refer to section on Priority Rating System for detailed information on this system.

Inaccessible areas that are likely to contain asbestos have been assumed to contain asbestos until further inspection and analysis of samples has been undertaken by an approved analyst.

A strategy of using representative samples of suspected asbestos-containing materials has been used to minimise the number of samples and degree of disturbance. Because of this strategy, findings of the inspection should be interpreted such that all visually similar materials in the same vicinity must be assumed to be composed of the same material until proven otherwise.

Asbestos Material Risk Assessment

The asbestos material risk assessment looks at the type and condition of the Asbestos-containing Material and the ease with which it will release fibres if disturbed. The presence of asbestos-containing materials does not necessarily constitute an exposure risk.

The scores of the four sections are added together to get the total Material Risk Score.

Product type (or debris from product)	
Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement etc)	1
Asbestos insulating board, mill boards, other low density boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt	2
Thermal insulation (eg pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing	3
Extent of damage/deterioration	
Good condition: no visible damage	0
Low damage: a few scratches or surface marks; broken edges on boards, tiles etc	1
Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres	2
High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris	3
Surface type/treatment	
Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles	0
Enclosed sprays and lagging, low density board (with exposed face painted or encapsulated), asbestos cement sheets etc	1
Unsealed asbestos insulating board, or encapsulated lagging and sprays	2
Unsealed laggings and sprayed asbestos	3
Asbestos type	
White (Chrysotile) only	1
Brown (Amphibole asbestos excluding crocidolite) and mixtures (not blue)	2
Blue (Crocidolite) and mixtures or type unknown	3

Score Range	2-3	4-6	7-9	10-12
Material Risk	Very Low	Low	Medium	High

Asbestos Disturbance Risk Assessment

The Asbestos Disturbance Risk Assessment looks at the likelihood of someone disturbing the Asbestos-containing Material. The normal occupant activity score is added to the three average scores from the likelihood of disturbance, human exposure potential and maintenance activity sections to get a total disturbance score.

Normal occupant activity		
Main type of activity in area	Rare disturbance activity (eg little used store room)	0
	Low disturbance activities (eg office type activity)	1
	Periodic disturbance (eg industrial or vehicular activity which may cause contact with ACMs)	2
	High levels of disturbance, (eg fire door with asbestos insulating board sheet in constant use)	3
Likelihood of disturbance		
Location	Outdoors	0
	Large rooms, warehouse or well-ventilated areas	1
	Rooms up to 100 sq metres in area	2
	Restricted or confined areas	3
Accessibility	Usually inaccessible or unlikely to be disturbed	0
	Occasionally likely to be disturbed	1
	Easily disturbed	2
	Routinely disturbed	3
Extent/amount	Small amounts or single items (eg strings, gaskets)	0
	Less than 10 sq metres area, or 10 metre pipe run	1
	10 to 50 sq metres area or 10 to 50 metres pipe run	2
	More than 50 sq metres, or 50 metres pipe run	3
Human exposure potential		
Number of occupants	None	0
	1 to 3	1
	4 to 10	2
	More than 10	3
Frequency of use of area	Infrequent	0
	Monthly	1
	Weekly	2
	Daily	3
Average time area is in use	Less than 1 hour	0
	1 to less than 3 hours	1
	3 to less than 6 hours	2
	More than 6 hours	3
Maintenance activity		
Type of maintenance activity	Minor disturbance (eg possibility of contact when gaining access)	0
	Low disturbance (eg changing light bulbs in asbestos ceiling tiles)	1
	Medium disturbance (eg lifting one or two asbestos ceiling tiles to access a valve)	2
	High levels of disturbance (eg removing a number of asbestos ceiling tiles to replace a valve or for recabling, or leak repair)	3
Frequency of maintenance activity	Unlikely – almost never	0
	Less than once a year	1
	Less than once a month	2
	More often than once a month	3

Score Range	0-5	6-7	8-9	10-12
Disturbance Risk	Very Low	Low	Medium	High

Asbestos Control Priority Assessment

The scores from the asbestos material assessment are added to the scores of the asbestos disturbance risk assessment, to give the overall control priority risk assessment. The control priority risk is adopted to assist in the programming and budgeting for the control of asbestos risk identified in the assessment.

Score Range	Less than 9	9 - 12	13 - 18	More than 19
Priority Risk	Very Low	Low	Medium	High
Control Priority	P4	P3	P2	P1

P1	<p>Materials that pose a high health risk to people in their current state. They are generally friable materials in poor condition, with potential to transfer into other locations. Due to poor condition/location/activities, have a high disturbance potential.</p> <p>Immediate actions should be taken for these materials to be removed by a licensed asbestos removal contractor (LARC).</p> <p><i>As an interim measure, restrict access.</i></p>
P2	<p>Materials that pose a medium health risk to people in their current state. They can be friable materials with minor damage, or non-friable materials in poor condition. Due to poor/fair condition/location/surface treatment, release of asbestos fibres upon contact may occur.</p> <p>Removal or encapsulation and regular reviews are recommended for these materials.</p> <p>Where planned maintenance, refurbishment or demolition works will disturb these materials, removal by a LARC is recommended.</p>
P3	<p>Materials that pose a low health risk to people in their current state. They are either friable materials in good condition or non-friable with slight damage or unpainted surfaces, with a low disturbance potential. Due to nature of the material, they do not readily release asbestos fibres upon contact.</p> <p>These materials should be identified and warning labels affixed.</p> <p>The material does not present a health risk unless disturbed.</p> <p>Where planned maintenance, refurbishment or demolition works will disturb these materials, removal by a LARC is recommended.</p>
P4	<p>Materials that pose a very low health risk to people in their current state. They are generally non-friable materials in good condition and have a very low disturbance potential. Due to the nature of the material, they do not readily release asbestos fibres upon contact.</p> <p>These materials should be identified and warning labels affixed.</p> <p>The material does not present a health risk unless disturbed.</p> <p>Where planned maintenance, refurbishment or demolition works will disturb these materials, removal by a LARC is recommended.</p>
P*	<p>Due to inaccessibility a full risk assessment could not be completed.</p> <p>Further investigation is required if any works or access to the area is to be undertaken so that Asbestos material risks can be identified and managed.</p>

Limitations

This report has been prepared in accordance with the agreement between C126956 CQ University Australia and Greencap.

Within the limitations of the agreed upon scope of services, this work has been undertaken and performed in a professional manner, in accordance with generally accepted practices, using a degree of skill and care ordinarily exercised by members of its profession and consulting practice. No other warranty, expressed or implied, is made.

This report relates only to the identification of Asbestos materials used in the construction of the building and does not include the identification of dangerous goods or Asbestos substances in the form of chemicals used, stored or manufactured within the building or plant.

The following should also be noted:

While the inspection has attempted to locate the Asbestos materials within the site it should be noted that the review was a visual inspection and a limited sampling program was conducted and/or the analysis results of the previous report were used. Representative samples of suspect Asbestos materials were collected for analysis. Other Asbestos materials of similar appearance are assumed to have a similar content.

Not all suspected Asbestos materials were sampled. Only those Asbestos materials that were physically accessible could be located and identified. Therefore it is possible that Asbestos materials, which may be concealed within inaccessible areas/voids, may not have been located during the inspection. Such inaccessible areas fall into a number of categories.

- (a) Locations behind locked doors;
- (b) Inset ceilings or wall cavities;
- (c) Those areas accessible only by dismantling equipment or performing minor localised demolition works;
- (d) Service shafts, ducts etc., concealed within the building structure;
- (e) Energised services, gas, electrical, pressurised vessel and chemical lines;
- (f) Voids or internal areas of machinery, plant, equipment, air-conditioning ducts etc;
- (g) Totally inaccessible areas such as voids and cavities created and intimately concealed within the building structure. These voids are only accessible during major demolition works;
- (h) Height restricted areas;
- (i) Areas deemed unsafe or hazardous at time of inspection;
- (j) Sub-surface soil layers; and
- (k) Areas around and below building slabs.

In addition to areas that were not accessible, the possible presence of Asbestos building materials may not have been assessed because it was not considered practicable as:

1. It would require unnecessary dismantling of equipment; and/or
2. It was considered disruptive to the normal operations of the building; and/or
3. It may have caused unnecessary damage to equipment, furnishings or surfaces; and/or
4. The Asbestos material was not considered to represent a significant exposure risk; and
5. The time taken to determine the presence of the Asbestos building material was considered prohibitive.

Only minor destructive inspection and sampling techniques were employed to gain access to those areas documented in the Asbestos Register. Consequently, without substantial demolition of the building, it is not possible to guarantee that every source of Asbestos material has been identified.

During the course of normal site works care should be exercised when entering any previously inaccessible areas or areas mentioned above and it is imperative that work cease pending further sampling if materials suspected of containing Asbestos materials or unknown materials are encountered. Therefore, during any refurbishment or demolition works, further investigations and assessment may be required should any suspect material be observed in previously inaccessible areas or areas not fully inspected previously, i.e. carpeted floors

Statements of Limitation

All and any Services proposed by Greencap to the Client were subject to the Terms and Conditions listed on the Greencap website at: <https://www.greencap.com.au/terms-conditions> Unless otherwise expressly agreed to in writing and signed by Greencap, Greencap does not agree to any alternative terms or variation of these terms if subsequently proposed by the Client. The Services were carried out in accordance with the current and relevant industry standards of testing, interpretation and analysis. The Services were carried out in accordance with Commonwealth, State, Territory or Government legislation, regulations and/or guidelines. The Client was deemed to have accepted these Terms when the Client signed the Proposal (where indicated) or when the Company commenced the Services at the request (written or otherwise) of the Client.

The services were carried out for the Specific Purpose, outlined in the body of the Proposal. To the fullest extent permitted by law, Greencap, its related bodies corporate, its officers, consultants, employees and agents assume no liability, and will not be liable to any person, or in relation to, any losses, damages, costs or expenses, and whether arising in contract, tort including negligence, under statute, in equity or otherwise, arising out of, or in connection with, any matter outside the Specific Purpose.

The Client acknowledged and agreed that proposed investigations were to rely on information provided to Greencap by the Client or other third parties. Greencap made no representation or warranty regarding the completeness or accuracy of any descriptions or conclusions based on information supplied to it by the Client, its employees or other third parties during provision of the Services. Under no circumstances shall Greencap have any liability for, or in relation to, any work, reports, information, plans, designs, or specifications supplied or prepared by any third party, including any third party recommended by Greencap. The Client releases and indemnifies Greencap from and against all Claims arising from errors, omissions or inaccuracies in documents or other information provided to Greencap by the Client, its employees or other third parties.

The Client was to ensure that Greencap had access to all information, sites and buildings as required by or necessary for Greencap to undertake the Services. Notwithstanding any other provision in these Terms, Greencap will have no liability to the Client or any third party to the extent that the performance of the Services was not able to be undertaken (in whole or in part) due to access to any relevant sites or buildings being prevented or delayed due to the Client or their respective employees or contractors expressing safety or health concerns associated with such access.

Unless otherwise expressly agreed to in writing and signed by Greencap, Greencap, its related bodies corporate, its officers, employees and agents assume no liability and will not be liable for lost profit, revenue, production, contract, opportunity, loss arising from business interruption or delay, indirect or consequential loss or loss to the extent caused or contributed to by the Client or third parties, suffered or incurred arising out of or in connection with our Proposals, Reports, the Project or the Agreement. In the event Greencap is found by a Court or Tribunal to be liable to the Client for any loss or damage arising in connection with the Services, the Client's entitlement to recover damages from Greencap shall be reduced by such amount as reflects the extent to which any act, default, omission or negligence of the Client, or any third party, caused or contributed to such loss or damage. Unless otherwise agreed in writing and signed by both parties, Greencap's total aggregate liability will not exceed the total consulting fees paid by the client in relation to this Proposal. For further detail, see Greencap's Terms and Conditions available at <https://www.greencap.com.au/terms-conditions>

The Report is provided for the exclusive use of the Client and for this Project only, in accordance with the Scope and Specific Purpose as outlined in the Agreement, and only those third parties who have been authorized in writing by Greencap. It should not be used for other purposes, other projects or by a third party unless otherwise agreed and authorized in writing by Greencap. Any person relying upon this Report beyond its exclusive use and Specific Purpose, and without the express written consent of Greencap, does so entirely at their own risk and without recourse to Greencap for any loss, liability or damage. To the extent permitted by law, Greencap assumes no responsibility for any loss, liability, damage, costs or expenses arising from interpretations or conclusions made by others, or use of the Report by a third party. Except as specifically agreed by Greencap in writing, it does not authorize the use of this Report by any third party. It is the responsibility of third parties to independently make inquiries or seek advice in relation to their particular requirements and proposed use of the site.

The conclusions, or data referred to in this Report, should not be used as part of a specification for a project without review and written agreement by Greencap. This Report has been written as advice and opinion, rather than with the purpose of specifying instructions for design or redevelopment. Greencap does not purport to recommend or induce a decision to make (or not make) any purchase, disposal, investment, divestment, financial commitment or otherwise in relation to the site it investigated.

This Report should be read in whole and should not be copied in part or altered. The Report as a whole set outs the findings of the investigations. No responsibility is accepted by Greencap for use of parts of the Report in the absence (or out of context) of the balance of the Report.

Sample Analysis Results

No additional samples were taken during the course of this survey
Previous samples collected are detailed below.

CLIENT DETAILS

Contact **Jordan Harley**
Client **SLR CONSULTING AUSTRALIA PTY LTD**
Address **Lego Building, 2 Lincoln Street
(PO Box 176 NSW LANECOVE 1595)
NSW 2266**
Telephone **02 9427 8100**
Facsimile **02 9427 8200**
Email **jharley@slrconsulting.com**
Project **622.10968.00000-Rockhampton North Campus**
Order Number **23358**
Samples **37**

LABORATORY DETAILS

Manager **Huong Crawford**
Laboratory **SGS Alexandria Environmental**
Address **Unit 16, 33 Maddox St
Alexandria NSW 2015**
Telephone **+61 2 8594 0400**
Facsimile **+61 2 8594 0499**
Email **au.environmental.sydney@sgs.com**
SGS Reference **SE170920 R0**
Date Received **03 Oct 2017**
Date Reported **10 Oct 2017**

COMMENTS

Accredited for compliance with ISO/IEC 17025-Testing. NATA accredited laboratory 2562(4354). Sample# 1-10, 13-15, 17, 25-32, 34-36 : No trace asbestos fibres detected using trace analysis technique. Asbestos analysed by Approved Identifiers Ravee Sivasubramaniam .

Lab Ref	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE170920.001	272	Other	40x20x3mm Cement sheet fragment	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.002	273	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.003	274	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.004	275	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.005	276	Other	20x15x8mm concrete fragments	03 Oct 2017	No Asbestos Detected	
SE170920.006	277	Other	10g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.007	278	Other	20x20x1mm Grey paint flakes	03 Oct 2017	No Asbestos Detected	
SE170920.008	279	Other	10x10x2mm Cement stone fragment	03 Oct 2017	No Asbestos Detected	
SE170920.009	280	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.010	281	Other	30x20x5mm Cement sheet fragment	03 Oct 2017	No Asbestos Detected Synthetic Mineral Fibres Detected Organic Fibres Detected	
SE170920.011	283	Other	<1g Cement sheet fragments	03 Oct 2017	Amosite & Chrysotile Asbestos Detected	
SE170920.012	284	Other	<1g Cement sheet fragments	03 Oct 2017	Amosite & Chrysotile Asbestos Detected	
SE170920.013	285	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.014	286	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.015	288	Other	<1g Brown fibre board fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.016	289	Other	20x20x2mm Cement sheet fragments	03 Oct 2017	Amosite & Chrysotile Asbestos Detected	
SE170920.017	290	Other	<1g Fibrous plaster board fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.018	291	Other	<1g Cement sheet fragments	03 Oct 2017	Amosite & Chrysotile Asbestos Detected	
SE170920.019	292	Other	<1g Cement sheet fragments	03 Oct 2017	Amosite & Chrysotile Asbestos Detected	
SE170920.020	293	Other	<1g Cement sheet fragments	03 Oct 2017	Amosite & Chrysotile Asbestos Detected	
SE170920.021	294	Other	<1g White fibrous material	03 Oct 2017	Chrysotile Asbestos Detected	
SE170920.022	295	Other	<1g White spongy fibrous material	03 Oct 2017	No Asbestos Detected Synthetic Mineral Fibres Detected	
SE170920.023	297	Other	20x20x4mm Cement sheet fragments	03 Oct 2017	Amosite & Chrysotile Asbestos Detected	
SE170920.024	298	Other	25x10x5mm Cement sheet fragments	03 Oct 2017	Amosite & Chrysotile Asbestos Detected	
SE170920.025	299	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.026	300	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.027	301	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.028	302	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.029	303	Other	20x10x3mm Cement sheet fragment	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.030	305	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.031	306	Other	15x5x4mm Cement sheet fragment	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.032	307	Other	20x5x3mm Cement sheet fragment	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.033	308	Other	25x20x8mm Cement sheet fragments	03 Oct 2017	Amosite & Chrysotile Asbestos Detected	
SE170920.034	309	Other	<1g Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.035	310	Other	25x15x3mm Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	
SE170920.036	311	Other	20x20x5mm Cement sheet fragments	03 Oct 2017	No Asbestos Detected Organic Fibres Detected	

RESULTS

Fibre ID in bulk materials

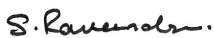
Method AN602

Lab Ref	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE170920.037	312	Other	20x10x2mm vinyl sheet	03 Oct 2017	No Asbestos Detected Synthetic Mineral Fibres Detected	

METHOD — METHODOLOGY SUMMARY

- AN602 Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic 'clues', which provide a reasonable degree of certainty, dispersion staining is a mandatory 'clue' for positive identification. If sufficient 'clues' are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
- AN602 Fibres/material that cannot be unequivocally identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.

SIGNATORIES



Ravee Sivasubramaniam
Hygiene Team Leader

FOOTNOTES

Amosite	-	Brown Asbestos	NA	-	Not Analysed
Chrysotile	-	White Asbestos	LNR	-	Listed, Not Required
Crocidolite	-	Blue Asbestos	*	-	NATA accreditation does not cover the performance of this service.
Amphiboles	-	Amosite and/or Crocidolite	**	-	Indicative data, theoretical holding time exceeded.

Sampled by the client.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.

Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.

Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

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