Health Infrastructure

Hazardous Building Materials Assessment

December 2018

Executive summary

GHD Pty Ltd (GHD) was commissioned by Health Infrastructure (HI) to complete pre-demolition hazardous building materials assessments and compile a hazardous building materials register for assets located at Griffith Base Hospital, 1 Noorebar Avenue, NSW (the site). The site consisted of 29 assets, however only 14 sites were nominated for inclusion under the scope of this assessment. All sites with the exception of the Renal Unit (#15) were occupied at the time of the inspection. All sites had live services still present. Further, only specific areas of the ICU and IPU were subject to visual assessment as identified on drawings:

- Drawing No. 130565-DJRD-AR-DWG-B1_1102 Rev 9 dated 14/11/2018
- Drawing No. 130565-DJRD-AR-DWG-B2_1102 Rev 4 dated 14/11/2018

It is not known wether the specific ICU and IPU areas assessed are applicable or cover all areas associated with proposed works. The assessment of these areas was significantly restricted due to the on-going use of the buildings and sensitivity of occupants. The assessment was limited to a visual assessment only with no sampling possible.

The 14 nominated assets are those outlined within the Table below.

Nominated asset
ICU (specific areas)
IPU (specific areas)
Assessment Rehab and Pysio (#8)
Bulk Stores (#13)
Distribution Kitchen (#14)
Carports and Gardener's Shed (no asset number)
Linen Handling Building (#21)
Maintenance Workshop (#11)
Mortuary (#10)
Old Kitchen and Staff Dining Room (#18)
Oncology and Specialist Clinic 1 (#7)
Renal Unit (#15)
RMO Accommodation (#9)
Stores (#12)

GHD understands that the objective of the project was to assess and document the risks associated with hazardous building materials (HBM) identified within the site for the purpose of informing HI of the presence of any HBM prior to the proposed demolition works.

For the purpose of the assessment, HBM have been limited to:

- Asbestos containing materials (ACM)
- Lead based paint systems (Lead Paints)
- Synthetic Mineral Fibre (SMF)
- Polychlorinated Biphenyls (PCBs)
- Ozone depleting substances (ODS)

The assessment of the nominated assets was undertaken by GHD between 29/10/2018 and 31/10/2018 and on 05/12/2018.

The specific areas of the Intensive Care Unit (ICU) and Inpatient Unit (IPU) were subject to a significantly restricted visual assessment only. The ICU and IPU assets were both in use during the time of assessment and given the sensitivity of the building use, as well as the presence of patients, medical staff and medical equipment in these areas, it was deemed impractical to attempt further assessment. Further, it is unknown if the areas assessed correlate with areas to be subject to be impact by planned demolition/refurbishment works.

As only specific areas of the ICU and IPU were accessed, further ACM or HBM are present within existing the Hazardous Materials Assessment prepared by (ESP, July 2015) report for the ICU and IPU within areas not accessed, which should also be referred to.

Following completion of the HBM assessment a number of HBMs have been identified. A summary of ACM present on site are presented in Table E 1. Other hazardous materials present on site are detailed in Table E 2.

Inaccessible areas were encountered as part of the assessment of the site and these are detailed in Table E 3.

For the purposes of the risk assessment, due to the proposed demolition of the assets at the site, all identified HBM have been assessed as “Very High” risk, requiring removal prior to general demolition works commencing.

This report is subject to, and must be read in conjunction with, the limitations set out in section 2 and the assumptions and qualifications contained throughout the Report. Areas must be carefully managed during demolition due to the potential for unidentified hazardous assets materials to be present, such as asbestos. Subsequently, it is recommended that additional investigations be made by the asbestos removalist in areas not accessible at the time of the assessment. If at any time suspect hazardous materials are encountered that are not identified within this Report, then works should immediately cease, the area made safe and advice sought from a Competent Person.

Table E 1 Summary of asbestos containing materials identified

Nominated asset	Number of positive asbestos containing samples	Number of friable instances	Number of non-friable instances
ICU (specific areas) #1	0	0	15
IPU (specific areas) #2	0	0	7
Assessment Rehab and Pysio (#8)	0	0	0
Bulk Stores (#13)	4	0	4
Distribution Kitchen (#14)	11	1	10
Carports and Gardener’s Shed (no asset number)	3	0	3
Linen Handling Building (#21)	10	0	10
Maintenance Workshop (#11)	8	0	8
Mortuary (#10)	0	1	0
Old Kitchen and Staff Dining Room (#18)	17	2	15
Oncology and Specialist Clinic 1 (#7)	5	1	4
Renal Unit (#15)	0	0	0
RMO Accommodation (#9)	8	0	8
Stores (#12)	4	1	3

Table E 2 Summary of other hazardous building materials identified

Nominated asset	Type of hazardous material	Risk	Number of instances identified
ICU (specific areas) #1	Synthetic Mineral Fibre (SMF)	Very High	1
	Polychlorinated Biphenyls (PCBs)	Very High	4
	Lead Based Paint	Very High	5
IPU (specific areas) #2	Polychlorinated Biphenyls (PCBs)	Very High	2
	Lead Based Paint	Very High	4
Assessment Rehabilitation and Physio (#8)	Ozone Depleting Substance (ODS)	Very High	1 (x5 identical air conditioning units)
Bulk Stores (#13)	Synthetic Mineral Fibre (SMF)	Very High	3
	Polychlorinated Biphenyls (PCBs)	Very High	1
Distribution Kitchen (#14)	Synthetic Mineral Fibre (SMF)	Very High	3
	Lead Based Paint	Very High	2
Carports and Gardener's Shed (no asset number)	Polychlorinated Biphenyls (PCBs)	Very High	1
	Ozone Depleting Substance (ODS)	Very High	1
Maintenance Workshop (#11)	Synthetic Mineral Fibre (SMF)	Very High	3
	Polychlorinated Biphenyls (PCBs)	Very High	2
Mortuary (#10)	Synthetic Mineral Fibre (SMF)	Very High	1 (x2 identical hot water systems)
Old Kitchen and Staff Dining Room (#18)	Synthetic Mineral Fibre (SMF)	Very High	6
	Lead Based Paint	Very High	2
	Polychlorinated Biphenyls (PCBs)	Very High	3
Oncology and Specialist Clinic 1 (#7)	Synthetic Mineral Fibre (SMF)	Very High	3
	Polychlorinated Biphenyls (PCBs)	Very High	2 (2 instances of 2 identical air conditioning units)
Renal Unit (#15)	Synthetic Mineral Fibre (SMF)	Very High	6
	Ozone Depleting Substance (ODS)	Very High	1
RMO Accommodation (#9)	Synthetic Mineral Fibre (SMF)	Very High	1
	Lead Based Paint	Very High	2
	Polychlorinated Biphenyls (PCBs)	Very High	1 (2 identical light fittings)
Stores (#12)	Synthetic Mineral Fibre (SMF)	Very High	2
	Polychlorinated Biphenyls (PCBs)	Very High	1 (13 identical light fittings)

Table E 3 Inaccessible or restricted access areas

Nominated asset	Inaccessible area	Reason
All Assets	Inside set ceilings or wall cavities, floor spaces, service shafts and ducts, height restricted areas, areas accessible only by dismantling equipment, voids or internal areas of plant or totally inaccessible areas concealed within the building structure and only accessible during demolition	Live services, buildings occupied
ICU (specific areas) #1	Throughout	Assets in use with sensitive/vulnerable occupation, deemed impractical to attempt assessment. Specific areas where demolition works may disturb are unclear
IPU (specific areas) #2	Throughout	Assets in use with sensitive/vulnerable occupation, deemed impractical to attempt assessment. Specific areas where demolition works may disturb are unclear
Assessment Rehabilitation and Physio (#8)	Ceiling space	Manhole located directly over large cupboard, in fully operational office
Bulk Stores (#13)	Ceiling space of south western office	No access point
Distribution Kitchen (#14)	Distribution board/box	Padlocked
	Ceiling space (unused southern storeroom)	Poor structural integrity of the ceiling prevented safe access
	Subfloor	Two access points deemed to be confined spaces – unable to enter
Linen Handling Building (#21)	Subfloor	Access panel screwed shut
	4 rooms/offices adjoining central hallway	Locked (PIN required)
	Information Services office	Locked
	South western corner room	Locked
Maintenance Workshop (#11)	Northern metal cabinet (former steam pipe area)	Locked
	Southern plant room	Locked
Mortuary (#10)	Ceiling space	Large cupboard blocking access to manhole

Nominated asset	Inaccessible area	Reason
Old Kitchen and Staff Dining Room (#18)	Subfloor – north western aspect	Access hatches screwed shut
	Storeroom – northern corner	External access door obstructed
	Room adjoining rear hallway	Locked (PIN required)
	Room adjoining entry hallway	Locked
	Ceiling space	No safe access point
Oncology and Specialist Clinic 1 (#7)	Chemotherapy Room	Occupied by patients
	Upstairs plant room – ductwork behind walls	Unable to destroy wall linings – operational plant room
Renal Unit (#15)	Two south eastern rooms	Locked (PIN required)
	North eastern wall cavity	Access hatched screwed shut
RMO Accommodation (#9)	Northern aspect of subfloor	Access hatch too small to enter
Stores (#12)	Contaminated waste room	Health risk

A register containing details of hazardous building materials identified at the site has been provided within Appendix A.

This report is subject to, and must be read in conjunction with, the limitations set out in section 2 and the assumptions and qualifications contained throughout the Report.

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Appendices

1. Introduction

GHD Pty Ltd (GHD) was commissioned by Health Infrastructure (HI) to complete a hazardous building materials assessment and compile a hazardous building materials register for assets located at Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW (the site).

The site consisted of 29 assets, however only 14 sites were nominated for inclusion under the scope of this assessment. All sites with the exception of the Renal Unit (#15) were occupied at the time of the inspection. All sites had live services still present. Further, only specific areas of the ICU and IPU were subject to visual assessment as identified on drawings:

- Drawing No. 130565-DJRD-AR-DWG-B1_1102 Rev 9 dated 14/11/2018
- Drawing No. 130565-DJRD-AR-DWG-B2_1102 Rev 4 dated 14/11/2018

It is not known wether the specific Intensive Care Unit (ICU) and Inpatient Unit (IPU) ICU and IPU areas assessed are applicable or cover all areas associated with proposed works. The assessment of these areas was significantly restricted due to the on-going use of the buildings and sensitivity of occupants. The assessment was limited to a visual assessment only with no sampling possible.

The 14 nominated assets are those outlined within the table below.

Table 1-1 Nominated assets for assessment

Nominated asset
ICU (specific areas)
IPU (specific areas)
Assessment Rehab and Pysio (#8)
Bulk Stores (#13)
Distribution Kitchen (#14)
Carports and Gardener's Shed (no asset number)
Linen Handling Building (#21)
Maintenance Workshop (#11)
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GHD understands that the project was to assess and document the risks associated with hazardous building materials (HBM) identified within the site for the purpose of informing HI of the presence of any HBM prior to the proposed demolition works.

For the purpose of the assessment, HBM have been limited to:

- Asbestos containing materials (ACM)
- Lead based paint systems (lead paints)
- Synthetic Mineral Fibre (SMF)
- Polychlorinated Biphenyls (PCBs)
- Ozone depleting substances (ODS)

The assessment of the nominated assets was undertaken by GHD between 29/10/2018 and 31/10/2018 and on 05/12/2018.

The specific areas of the ICU and IPU were subject to a significantly restricted visual assessment only. The ICU and IPU assets were both in use during the time of assessment and given the sensitivity of the building use, as well as the presence of patients, medical staff and medical equipment in these areas, it was deemed impractical to attempt further assessment. Further, it is unknown if the areas assessed correlate with areas to be subject to be impact by planned demolition/refurbishment works.

As only specific areas of the ICU and IPU were accessed, further ACM or HBM are present within existing the Hazardous Materials Assessment prepared by (ESP, July 2015) report for the ICU and IPU within areas not accessed, which should also be referred to.

1.1 Objectives and scope of assessment

The scope of the HBM Assessment was:

- Review the existing Hazardous Materials Assessment prepared by ESP, July 2015 as it relates to the endorsed scope for Stage 1 of the Griffith Base Hospital Redevelopment.
- Identify the presence of suspect HBMs within areas that may be disturbed during demolition.
- Collect samples of suspect HBM (asbestos and lead based paints only) for analysis by a National Association of Testing Authorities (NATA) accredited laboratory.
- Assess the risks associated with each identified HBM.
- Assess risk management strategies associated with the demolition works.
- Prepare an assessment report including a Hazardous Building Materials Register for the nominated assets in alignment with the requirements of the NSW Work Health and Safety (WHS) Regulation 2017.

1.2 Legislative requirements

The HBM Assessment works and preparation of this report have been undertaken in accordance with the requirements of:

- *Work Health and Safety Act 2011* (NSW)
- *Work Health and Safety Regulations 2017* (NSW)
- *How to Manage and Control Asbestos in the Workplace*, *2016*. SafeWork NSW
- *How to Safely Remove Asbestos, 2016*. SafeWork NSW
- National Occupational Health and Safety Commission (1990) Synthetic Mineral Fibres; National Standard for Synthetic Mineral Fibres; and the *National Code of Practice for the Safe Use of Synthetic Mineral Fibres*
- AS4361.2 (2017) *Guide to Lead Paint Management. Part 2: Residential and Commercial Buildings*
- ANZECC (1997) *Identification of PCB-containing Capacitors: An Information Booklet for Electricians and Electrical Contractors*
- *The Ozone Protection and Synthetic Greenhouse Gas Management Act 1989* and related Acts (the Ozone Acts)

No one section or part of a section of this report is to be taken as giving an overall idea of this report. Each section is to be read in conjunction with the whole of this report, including the asbestos registers for the nominated assets.

2. Limitations

This Asbestos Assessment and Register report ("Report"):

- Has been prepared GHD Pty Ltd ("GHD") for Health Infrastructure (HI).
- May only be used and relied on by HI.
- Must not be copied to, used by, or relied on by any person other than HI, or altered, amended or abbreviated, issued in part or issued incomplete without the prior written consent of GHD.
- May only be used for the purpose of managing the hazardous building materials identified within the nominated assets assessed and must not be used for any other purpose.

GHD and its servants, employees and officers otherwise expressly disclaim responsibility to any person other than HI arising from or in connection with this Report. To the maximum extent permitted by law, all implied warranties and conditions in relation to the services provided by GHD and the Report are excluded unless they are expressly stated to apply in this Report.

The services undertaken by GHD in connection with preparing this Report were limited to those specifically detailed in Section 1 of this Report. The opinions, conclusions and any recommendations in this Report are based on observations made by GHD of the assets nominated in Section 1 and in light of the limitations specifically detailed in Section 3.2 of this Report.

Subject to the paragraphs in this section of the Report, the opinions, conclusions and any recommendations in this Report are based on conditions encountered and information reviewed at the time of preparation and may be relied on until:

- The next assessment as nominated in Section 5.1.
- The condition, access to or the activities potentially impacting the identified or inaccessible asbestos containing or hazardous building materials, change from those identified.

After which time, GHD expressly disclaims responsibility for any error in, or omission from, this Report arising from or in connection with those opinions, conclusions and any recommendations. Please note that subsequent to the date of this report, works may have resulted in changes to the status of any identified materials, which should have been documented and provided by building management as a supplement to this report.

The data and advice provided herein relate only to the project and structures described in the report and must be reviewed by a competent professional before being used for any other purpose. GHD accepts no responsibility for other use of the data.

Where a third party conducted assessment work, reports or verbal information that has been relied upon, the data are included and used in the form provided by others. The responsibility for the accuracy of such data remains with the original entity and not with GHD.

The advice tendered in this report is based on information obtained from the inspection and sampling locations and is not warranted in respect to the conditions that may be encountered across the building structure or site at other than these locations, including those actually encountered during any future maintenance, refurbishment or demolition. Stated quantities of observed materials or items should not be inferred as being a definitive quantity assessment of such materials or items.

The recorded condition of hazardous building materials may change over time. This may be due, but not limited to, deterioration, damage or other disturbance. As such, the report records conditions at the time of assessment only.

As the assessment is a visual inspection and a sampling process, only those hazardous building materials that are physically accessible and visible can be located and identified. The possibility that unassessed hazardous building materials remain in inaccessible or concealed areas cannot be ruled out. Such areas include but are not limited to, inside set ceilings or wall cavities, service shafts and ducts, height restricted areas, areas accessible only by dismantling equipment, voids or internal areas of plant or totally inaccessible areas concealed within the building structure and only accessible during demolition.

The report is not intended for the general programming of asbestos removal works unless used in conjunction with a specification detailing the extent of works and appropriate control measures.

3. Methodology

3.1 Field assessments

The following methodology was carried out during the HBM assessment:

- Inspection of buildings and above ground structures using non-destructive inspection methods, where practicable, noting the condition and accessibility of potential asbestos building materials.
- Collection of representative samples from building materials suspected of containing asbestos and lead based paint systems.
- Practicable restoration (where applicable) of sample locations to pre-sample conditions to prevent any potential contamination of the workplace.
- Use of definitive and unique sample location identifiers consisting of a primary location, secondary location and a material description.
- Limited cross-referencing of similar suspect building materials at different locations within the same structure.
- Noting inaccessible areas during the inspection and provide a reason for the restricted access e.g. unsafe due to confined spaces, live electricity, height restrictions.
- Submission of samples of suspect hazardous building materials to a National Association of Testing Authorities (NATA) accredited laboratory in Australia to determine the presence of asbestos/lead in paint.
- Compilation of a HBM register for each property detailing the confirmed and suspect occurrences of HBM within the nominated buildings.

3.2 Assessment limitations

The assessment inspection was undertaken only in those areas where access was available. Effort was made to include sub floor areas and ceiling spaces (where access is typically restricted). In occupied assets and those with live services present, where detailed inspection would necessitate demolition or damage to wall cladding, coatings, plant, etc., this was not undertaken.

Floor coverings such as carpet and sheeting were taken up, where present and possible, to enable inspection of the floor surface. Equipment found in use was not generally disturbed, and stored equipment was not internally accessed for the purpose of inspection. Similarly, moveable chattels such as desks were not reviewed. Moveable chattels are not considered part of this assessment.

It should be noted that no assessment can be regarded as absolute, and that partial or total demolition of structures may reveal instances of asbestos and other hazardous building materials *in-situ* that were not identified during this assessment.

Other materials that are also not generally accessed, for reasons of safety or because of difficulty of access, include electrical backing boards and materials on or above roof lines.

As the assessment was a visual inspection and sampling process, only those HBM that were physically accessible and visible could be located and identified. The possibility that unsighted HBMs remain in inaccessible or concealed areas cannot be ruled out. Such areas generally include but are not limited to:

- Inside set ceilings or wall cavities
- Height restricted areas
- Those areas accessible only by dismantling equipment
- Beneath concrete floors or where only restricted access is available to sub floor spaces
- Building voids
- Inaccessible areas concealed within the building structure and only accessible during demolition works
- Sub-surface soil investigations to identify infrastructure such as pipework and storage tanks or containers

Areas not accessed are deemed to contain HBM until such a time that access can be gained and the presence, or otherwise, of HBM can be confirmed.

The specific areas of the Intensive Care Unit (ICU) and Inpatient Unit (IPU) were subject to a significantly restricted visual assessment only. The ICU and IPU assets were both in use during the time of assessment and given the sensitivity of the building use, as well as the presence of patients, medical staff and medical equipment in these areas, it was deemed impractical to attempt further assessment. Further, it is unknown if the areas assessed correlate with areas to be subject to be impact by planned demolition/refurbishment works.

This report may be considered to provide indication on the type of HBM likely to be encountered in the asset or during demolition works, and on the general locations for such materials.

3.3 Sample collection

Where appropriate, representative samples of suspected HBMs were collected and analysed to confirm the presence (or absence) of asbestos and or lead paint in order to form the basis for individual records in the HBM register. After sample collection, the sample location was sealed with either polyvinyl acetate (PVA) adhesive or a building material filler to seal the sample location and prevent the potential disturbance and weathering of the sample locations. Where possible, samples were collected from discrete locations (such as behind doors or areas out of direct eye line) and the sample location stabilised to prevent further disturbance.

3.4 Sample analysis

3.4.1 Asbestos containing materials (ACM)

Samples of suspect ACM were collected by GHD for analysis at a NATA accredited laboratory.

Asbestos samples collected during the assessment were analysed using polarised light microscopy in conjunction with dispersion staining techniques in accordance with Australian Standard™ AS 4964—2004. *Method for the qualitative identification of asbestos in bulk samples*. The results of all sample analysis were interpreted by competent personnel.

3.4.2 Synthetic mineral fibres (SMF)

SMF materials were not sampled for laboratory analysis as part of the site assessment and were instead visually identified by the GHD assessor.

3.4.3 Polychlorinated biphenyls (PCBs)

Where possible, capacitors within fluorescent light fittings were observed and cross-referenced with the publication, Identification of PCB-containing Capacitors, ANZECC, 1997.

As the electrical equipment was still live throughout the site, internal inspection and/or sampling was not possible due to the inherent hazard to safety. Therefore, a general comment was made in the register on its potential to harbour a PCB capacitor.

No other electrical equipment was assessed for potential PCB containing materials.

3.4.4 Lead based paint

Suspected lead paint samples were collected during the assessment for analysis at a NATA accredited laboratory. The suspected lead paint samples were then analysed using digestion of paint chips/scrapings/liquids for metals determination by ICP-AES/MS and or CV/AAS. The results of all sample analysis were interpreted by competent personnel.

Where possible, a sample was collected from steel, timber, concrete, rubber etc. which was coated with the paint of concern.

Australian Standard AS4361.2 2017 *Guide to Lead Paint Management Part 2: Residential & Commercial Buildings* defines lead paint in which the lead content (calculated as lead metal) is in excess of 0.1% per cent by weight of the dry film as determined by laboratory testing. Results are expressed in per cent weight per weight.

3.4.5 Ozone depleting substances

Ozone depleting substances used as refrigerants were identified, where possible, by visual observation of the refrigerant type on the compliance plates of refrigerated equipment.

4. Risk assessment

The presence of HBMs can represent a real or potential health risk to humans. Where, due to material condition and location, a pathway to human exposure does not exist, and then the risks to human health are significantly reduced.

This section details the categorising of each instance of HBM with regards to friability, condition, accessibility, risk and control methods, as applicable. Samples which were found not to contain HBM were not categorised for friability, condition, accessibility or risk however they were quantified for identification purposes.

The following sections identify the descriptors used in the abovementioned categories observed on site.

4.1 Friability (applies to asbestos only)

Each instance of confirmed ACM was categorised by GHD in accordance with the categories outlined in Table 4-1.

Table 4-1 Friability assessment

Descriptor	Decision rule
Friable	Asbestos containing material which, when dry, is or may become crumbled, pulverized or reduced to powder by hand pressure.
Non-friable	Asbestos containing material which, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure alone.

4.2 Material condition

The condition of each instance of confirmed or presumed HBM was classified as one of the four categories outlined in Table 4-2. Further details on the condition descriptors to be used are presented in Table 4-3.

Table 4-2 Condition assessment

Ranking/descriptor	Non-Friable ACM	Friable ACM
Very Good	Sealed/Encapsulated	-
Good	Unsealed and Undamaged	-
Fair	Cracked or weathered	Encapsulated
Poor	Damaged or Debris	Unsealed

Table 4-3 Detailed condition assessment descriptors

Descriptor	Guideline
Very good	• Material is intact and shows no signs of deterioration. • No water staining or evidence of material being impacted by water, and/or • Any stable (sealed), non-friable asbestos material with no exposed edges. The material must also be well sealed along the surface and edges (i.e. well painted and ceiling/wall sheets must be butt jointed into moulded plastic and the corners or edges must be similarly covered with moulding such a timber quadrant or timber strap).
Good	• Stable materials but where paint or sealant may have delaminated marginally, and/or • Commonly weathered materials used externally (i.e. unbroken roofing materials). This is recorded only if the damage/deterioration is less than one per cent (1%) of the total area of the material.
Fair	• Material is breaking up, delaminating or coming loose from the substrate, and/or • Slight water staining or buckling is evident, and/or • Unsealed and not damaged asbestos cement material used internally. This is recorded only if the damage/deterioration is less than ten per cent (10%) of the total area of the material.
Poor	• Material is non cohesive. Parts of an installation may be dislodged or large amounts of dust or pieces of material debris are located on ground near/below the installation, and/or • Water has dislodged some of the material or has caused it to break away from the substrate, or the material is saturated with the potential to fall. • Signs of accumulated dust or small pieces of material debris on ground near or below the installation and accidental or deliberate damage. This is to be recorded if the damage/deterioration is more than ten per cent (10%) of the total area of the material. Also applies to debris and friable asbestos material with ANY degree of compromised encapsulation and/or enclosure.

4.3 Likelihood of disturbance

The likelihood of disturbance to each instance of confirmed HBM was classified one of the three categories outlined in Table 4-4.

Table 4-4 Likelihood of disturbance assessment

Descriptor	Guideline
Low	Where activities within the area where HBMs are located are unlikely to impact the material, or Areas where the probability of being occupied by building users for extended periods on a regular basis are low. e.g. The material is located externally or above a suspended ceiling, in the roof space, or concealed in service ducts or piping.
Medium	Where activities within the area where HBMs are located may infrequently (once to three times per year) impact the material, or Areas where the probability of being occupied by building users for short periods on a regular basis is high. e.g. Plant rooms and workshops containing operational plant or equipment and are occasionally visited. Corridors, lunch rooms, toilets and internal elevated surfaces where a ladder is required for access.

Descriptor	Guideline
High	Where activities within the area where HBMs are located may frequently (greater than once a month) impact the material, or Areas where the probability of being occupied by building users for extended periods on a regular basis is high. e.g. Offices and workshops which are always occupied. As part of job occupants may come into contact with damaged or deteriorated HBM.

4.4 Level of risk

A risk assessment that classifies the risk level for each particular hazardous material to allow informed decisions about control measures during the ongoing occupancy of the assets was undertaken. The risk assessment then identifies the risk treatment options on how to manage *in situ* HBM.

Risk values were calculated by combining the condition and likelihood of disturbance rankings, as determined during the site inspection and are presented in Table 4-5. A description of the risk levels is presented in Table 4-6.

Table 4-5 Risk matrix

Condition	Likelihood of Disturbance		
	High	Medium	Low
Poor	Very High	High	Moderate
Fair	High	Moderate	Moderate
Good	Moderate	Moderate	Low
Very Good	Moderate	Low	Low

Please note that the above decision rules are a guide only and some instances of HBM may have additional risk assessment effort and outcomes, as appropriate.

Table 4-6 Description of risk levels

Risk Level	Guideline
Low	Material stable. Reassess condition within five years (or recommended to be scheduled concurrent with any other site inspections for asbestos materials due to minimal additional time required).
Medium	Material may remain in situ under effective interim administrative controls. Material condition to be improved or likelihood of disturbance to be reduced within 12 months.
High	Material may remain in situ under effective interim administrative controls. Material condition to be improved or likelihood of disturbance to be reduced within six months.
Very High	Area where the material is present; is not suitable for occupancy, urgent remediation is required. Imminent risk of harm. **This category also applies to demolition and/or refurbishment works that will be impacting on Hazardous Building Materials.**

4.5 Control method

Each instance of HBM was categorised as requiring one of the control methods described in Table 4-7.

Table 4-7 Control methods

Descriptor	Guideline
Defer (leave and maintain)	Stable material - not prone to damage
Encapsulate (seal)	Stable material – slightly deteriorated may be prone to damage and requires protection
Enclosure	Stable or damaged material – where removal is not practicable and more protection than encapsulation is required
Remove	Deteriorated/damaged material, or material prone to routine disturbance, where encapsulating is not adequate or there is a requirement to remove prior to demolition.
None required	No HBM identified

5. Results

The results of the HBM assessment are presented in a register format which is designed to provide readily available information about the presence of HBMs.

The HBM Register (including photographs) and Laboratory Reports have been provided in Appendix A and Appendix B respectively.

We note that due to the proposed demolition of the nominated assets that risk ranking provided for all reported HBMs is “Very High”. Should the assets not be subject to demolition the risk ranking would be re-assessed consistent with the critera outlined in Table 4-5.

5.1 Asbestos containing materials

A register of all identified asbestos-containing material sampled and analysed and materials or locations deemed to contain asbestos is presented in Appendix A**.** A summary of building materials identified or presumed to contain asbestos are summarised below.

Table 5-1 Summary of asbestos containing materials identified

Nominated asset	Number of positive asbestos containing samples	Number of friable instances	Number of non-friable instances
ICU (specific areas) #1	0	0	15
IPU (specific areas) #2	0	0	7
Assessment Rehab and Pysio (#8)	0	0	0
Bulk Stores (#13)	4	0	4
Distribution Kitchen (#14)	11	1	10
Carports and Gardener’s Shed (no asset number)	3	0	3
Linen Handling Building (#21)	10	0	10
Maintenance Workshop (#11)	8	0	8
Mortuary (#10)	0	1	0
Old Kitchen and Staff Dining Room (#18)	17	2	15
Oncology and Specialist Clinic 1 (#7)	5	1	4
Renal Unit (#15)	0	0	0
RMO Accommodation (#9)	8	0	8
Stores (#12)	4	1	3
TOTAL	**70**	**6**	**87**

5.2 Lead paint bulk analysis results

A register of all identified lead based paint systems sampled and analysed and materials or locations deemed to contain lead based paint systems is presented in Appendix A.

5.3 Synthetic mineral fibres

Synthetic mineral fibres were visually identified as thermal insulation within a variety of locations within the asset structures assessmented at the site.

A register of all identified and presumed SMF is presented in Appendix A.

5.4 Polychlorinated biphenyls

The light fittings throughout the site assets assessmented were live at the time of the inspection and were therefore not accessible as they presented an electrical hazard. The light fittings should be treated with caution until such time the capacitors can be accessed and checked for the presence (or otherwise) of PCB.

Capacitors should be observed and cross-referenced with the publication, *Identification of PCB-containing Capacitors*, ANZECC, 1997 prior to handling, management or disposal.

A register of all identified and presumed PCB capacitors is presented in Appendix A.

5.5 Ozone depleting substances

Refrigerant gas labels were observed on the air conditioning units at the time of inspection and the details of the refridgerantsused in each unit were recorded.

A register of all units contining R22, a known Ozone Depleting Substance, is presented in Appendix A.

5.6 Inaccessible areas

During the assessment a number of areas within the assets were deemed inaccessible/ partially accessible. This included height restricted areas and inaccessible wall cavities. These inaccessible areas are documented in Table 5-2.

Table 5-2 Inaccessible or restricted access areas

Nominated asset	Inaccessible area	Reason
All Assets	Inside set ceilings or wall cavities, floor spaces, service shafts and ducts, height restricted areas, areas accessible only by dismantling equipment, voids or internal areas of plant or totally inaccessible areas concealed within the building structure and only accessible during demolition	Live services, buildings occupied
ICU (specific areas) #1	Throughout	Assets in use with sensitive/vulnerable occupation, deemed impractical to attempt assessment. Specific areas where demolition works may disturb are unclear
IPU (specific areas) #2	Throughout	Assets in use with sensitive/vulnerable occupation, deemed impractical to attempt assessment. Specific areas where demolition works may disturb are unclear
Assessment Rehabilitation and Physio (#8)	Ceiling space	Manhole located directly over large cupboard, in fully operational office
Bulk Stores (#13)	Ceiling space of south western office	No access point
	Distribution board/box	Padlocked

Nominated asset	Inaccessible area	Reason
Distribution Kitchen (#14)	Ceiling space (unused southern storeroom)	Poor structural integrity of the ceiling prevented safe access
	Subfloor	Two access points deemed to be confined spaces – unable to enter
Linen Handling Building (#21)	Subfloor	Access panel screwed shut
	4 rooms/offices adjoining central hallway	Locked (PIN required)
	Information Services office	Locked
	South western corner room	Locked
Maintenance Workshop (#11)	Northern metal cabinet (former steam pipe area)	Locked
	Southern plant room	Locked
Mortuary (#10)	Ceiling space	Large cupboard blocking access to manhole
Old Kitchen and Staff Dining Room (#18)	Subfloor – north western aspect	Access hatches screwed shut
	Storeroom – northern corner	External access door obstructed
	Room adjoining rear hallway	Locked (PIN required)
	Room adjoining entry hallway	Locked
	Ceiling space	No safe access point
Oncology and Specialist Clinic 1 (#7)	Chemotherapy Room	Occupied by patients
	Upstairs plant room – ductwork behind walls	Unable to destroy wall linings – operational plant room
Renal Unit (#15)	Two south eastern rooms	Locked (PIN required)
	North eastern wall cavity	Access hatched screwed shut
RMO Accommodation (#9)	Northern aspect of subfloor	Access hatch too small to enter
Stores (#12)	Contaminated waste room	Health risk, access protocol to the room including PPE requirements were unknown

6. Recommendations

The following recommendations relate to the confirmation and safe removal of HBM from the assets on site prior to the general demolition works commencing. The methodology for the safe removal of HBM should be included in a Demolition Management Plan (or similar) for the site.

As only specific areas of the ICU and IPU were accessed, further ACM or HBM are present within the Hazardous Materials Assessment (ESP, July 2015) report for the ICU and IPU within areas not accessed which should also be referred to.

6.1 Inaccessible areas

It should be noted that all nominated assets, with the exception of the Renal Unit (#15), were occupied at the time of the inspection with all assets having live services present. As such, intrusive pre-demolition assessment techniques where unable to be utilised during this assessment, with all assets having inaccessible/restricted areas.

Inaccessible areas identified during the HBM assessment (ie. within all nominated assets, outlined within this report and registers) should be investigated prior to demolition works commencing to confirm the presence (or otherwise) of HBM materials, following vacation of the buildings and isolation of services. Any additional materials identified should be removed prior to demolition in accordance with relevant Codes of Practice and Legislation listed below.

6.2 Asbestos containing materials

All identified asbestos containing material must be removed prior to demolition in accordance with the *Code of Practice for Safe Removal of Asbestos* (SafeWork NSW 2016).

Should demolition or refurbishment works be delayed the following interim mitigation measures are recommended:

- Install labelling to identified asbestos containing materials in accordance with relevant Codes of Practice
- identified asbestos cement debris associated with various assets should be removed in accordance with relevant Codes of Practice
- access should be restricted to the southern storeroom of the Distribution Kitchen #14 and signage installed in accordance with relevant Codes of Practice
- further investigation is recommended into possible millboard lining within an electrical duct heater (EDH) at the Mortuary #10
- stored asbestos containing panel to Old Kitchen and Staff Dining Room #18, North western storage hut should be removed in accordance with relevant Codes of Practice

6.3 Synthetic mineral fibres

All SMF should be removed in accordance with National Occupational Health and Safety Commission (1990) *Synthetic Mineral Fibres; National Standard for Synthetic Mineral Fibres*; and the *National Code of Practice for the Safe Use of Synthetic Mineral Fibres*.

6.4 Polychlorinated biphenyls

Fluorescent light fittings throughout the site should be inspected by an electrician prior to demolition to confirm the presence (or otherwise) of capacitors containing PCB. If capacitors are identified as potentially containing PCB, the capacitors must be removed and disposed in accordance with ANZECC (1997) *Identification of PCB-containing Capacitors: An Information Booklet for Electricians and Electrical Contractors*.

6.5 Lead based paints

Prior to demolition works, lead based paints may be disposed of attached to the substrates as long as they are in good condition. If the lead based paints are chalking or delaminating, the paint residues should be removed from the substrates in accordance with AS4361.2 (2017) *Guide to Lead Paint Management. Part 2: Residential and Commercial Buildings* and the waste must be disposed of as a lead containing material in accordance with EPA requirements.

Should demolition or refurbishment works be delayed, any chalking or delaminating paints should be subject to interim mitigation measures including removing and/or sealing.

6.6 Ozone depleting substances

Prior to proposed demolition works that may disturb refrigerants, the equipment must be handled by licensed contractors holding a permit under *The Ozone Protection and Synthetic Greenhouse Gas Management Act 1989*.

6.7 Suspect materials or further advice

Should suspect materials be identified that are not identified within the HBM Registers or supporting systems, then the material should be sampled and analysed for the suspected hazard. If applicable, any associated works with potential to disturb the material are to cease and the area made safe. If the suspect material has already been disturbed, then the overarching provisions of the Hazardous Building Materials Management Plan or similar, is to be followed, including advice sought from a suitably qualified and experienced professional.

If in doubt or unsure of any issue involving known, presumed or suspect hazardous building materials then works should cease and advice sought.

6.8 Additional precautionary testing

If suspected asbestos building materials are encountered during, maintenance, refurbishment or demolition of the nominated assets (but are not listed in the asset register) it is recommended that HI undertake additional precautionary testing. In particular, the following testing should be included:

- Any fibrous or otherwise suspect cement building materials observed on the Site, and not identified in the HBM Register, should be treated as asbestos-cement material or sampled and analysed for asbestos fibres.
- Any bituminous water proofing membranes not identified in the asbestos register should be treated as asbestos containing materials or sampled and analysed for asbestos fibres.

- Any building containing old vinyl floor tiles or sheeting that is to be demolished or if the vinyl flooring in these assets is to be removed and upgraded, it is recommended that a sample of the vinyl flooring be collected and analysed for asbestos, particularly the vinyl flooring that is not identified in the asbestos register. This is required to assess disposal options for the vinyl.
- Any other material suspected of being a hazard to health, or not specifically listed within the Asbestos Registers, should be sampled and analysed prior to any refurbishment, demolition, or other activity with potential to disturb the material.

6.9 Planning of maintenance, refurbishment or demolition works

With respect to any known or potential asbestos building material or HBM, the planning of maintenance, refurbishment or demolition works associated with any asset needs to be undertaken carefully. It should include consideration of the following:

- Requirements of the overarching Asbestos Management Plan or similar.
- Recognition that any identified asbestos building material or HBM is the minimum amount of material present.
- Subsequent recognition that the scope and limitations of prior asbestos assessment(s) may result in additional unidentified asbestos containing materials or HBM being present. This may require works to:
  - Address known information gaps, such as assessmenting any previously inaccessible rooms and assuming that asbestos building material may be present in other areas not generally accessed by previous assessment(s), such as wall and ceiling cavities.
  - Project team undertaking an asbestos building material risk analysis and incorporating suitable provisions into contract/specifications.
  - Consider directing the works Contractor to undertake their own independent asbestos building material assessment of the work area (may use existing information) that then adds an additional layer of assurance as well as minimising potential Contractor time and cost variations as works progress.

Prior to demolition, refurbishment or similar activity, all asbestos building materials likely to be disturbed by those works must be removed.

6.10 Maintenance of the HBM register

Maintenance of the HBM Register is required so that it remains current and HI and its tenants/workers/contractors can rely upon it as an accurate representation of HBMs present at the relevant assets. In order to continually improve the completeness and accuracy of the HBM register, it is recommended that HI:

- Action and document the management recommendations made within the register, particularly where an elevated risk is present with a corresponding recommended timeframe of 12 months or less.
- Add entries related to precautionary testing, if conducted (discussed in Section 6.8).
- Undertake assessments to determine the presence of HBM in spaces or assets that were not accessible or may not be listed on the asbestos register.
- Record the removal or demolition of assets containing HBM.
- Undertake a re-assessment once every year (or as otherwise required) to maintain the register and review the level of risk assigned to the particular instance of HBM.

- Record removal and maintenance of HBM.
- Distribute or otherwise make available all asbestos assessments, registers or other relevant information to all employees, visitors, contractors and maintenance people or companies with potential to disturb or work with known or presumed HBM.

6.11 Suspect materials or further advice

Should suspect materials be identified that are not identified within the HBM Register or supporting systems, then the material should be sampled and analysed for the suspected hazard. If applicable, any associated works with potential to disturb the material are to cease and the area made safe. If the suspect material has already been disturbed, then the overarching provisions of the Asbestos Management Plan or similar, is to be followed, including advice sought from a suitably qualified and experienced professional.

If in doubt or unsure of any issue involving known, presumed or suspect asbestos building materials then works should cease and advice sought.

Appendices

Appendix A – HBM Register

Asbestos Materials Register

Site Location: Assessment, Rehabilitation & Physio (#8), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

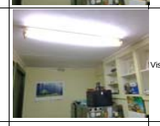
Inspection Date: 30/10/2018

Consultant			Location / Description										Risk Assessment									Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The Assessment, Rehabilitation and Physio building (#8) is a brick structure with a flat corrugated iron roof constructed on a concrete slab. Windows are metal framed, whilst eaves are flat cement product. Internally, the floors are lined with modern vinyl sheeting whilst the walls are lined with brick and gyprock, with the exception of the western wall and ceiling of the shower rooms which are flat cement product. This building adjoins the Oncology and Specialist Clinics 1 building (#7).																							
No Asbestos Detected																									
30-Oct-18		DC/KW	8	GF	External	Flat cement product	Eaves	Northern aspect	Lining	Sealed		GH-KW-063	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	4	m2	GH-KW-063 collected from area on northern aspect with visible damage (see photo)			
30-Oct-18		DC/KW	8	GF	External	Flat cement product	Eaves	Western and southern aspects	Lining	Sealed		Ref GH-KW-063	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	16	m2	-			
30-Oct-18		DC/KW	8	GF	External	Flat cement product	Ceiling/awnings extending from southern rehabilitation rooms	Southern aspect	Lining	Sealed		Ref GH-KW-063	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	8	m2	x3 ceiling/awning panels			
30-Oct-18		DC/KW	8	GF	External	Flat cement product	Burgundy triangular infill panel	Above northern patio	Lining	Sealed		GH-KW-064	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	<1	m2	-			
30-Oct-18		DC/KW	8	GF	Internal	Flat cement product	Northern Shower Room	Western wall	Lining	Sealed		GH-KW-065	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	60	m2	GH-KW-065 representative of shower room walls - all aspects			
30-Oct-18		DC/KW	8	GF	Internal	Flat cement product	Northern Shower Room	Ceiling	Lining	Sealed	As above	Ref GH-KW-065	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	16	m2	-			
30-Oct-18		DC/KW	8	GF	Internal	Flat cement product	Southern Shower Room	Eastern wall	Lining	Sealed	As above	Ref GH-KW-065	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	60	m2	GH-KW-065 representative of shower room walls - all aspects			
30-Oct-18		DC/KW	8	GF	Internal	Flat cement product	Southern Shower Room	Ceiling	Lining	Sealed	As above	Ref GH-KW-065	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	16	m2	-			
Ozone Depleting Substances																									
30-Oct-18		DC/KW	8	GF	External	Ozone depleting substance	Daikin Air Conditioning Units - R22 refridgerant	Western wall	Refridgerant	Sealed		Visual Observation	Presumed ODS until proven otherwise	N/A	Good	Medium	Very high	Removal	Not required	5	Item	-			
No Access Areas																									
Ceiling space - Office in use, manhole located directly above a large cupboard																									

Asbestos Materials Register

Site Location: Bulk Store (#13), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

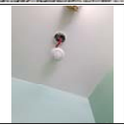
Inspection Date: 29/10/2018

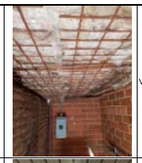
Consultant			Location / Description										Risk Assessment								Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The Bulk Store (#13) is a brick and tin structure on a concrete structure with a slanted corrugated tin roof. Internally, the lower wall panels are lined with brick whilst the upper wall panels are lined with tin. The floors are lined with concrete and the ceiling is lined with SMF insulation and sarking. A small office is located within the south western portion of the building, which has ceilings lined with flat cement product and walls lined with both brick and flat cement product.																					
Asbestos Material Detected																								
29-Oct-18		DC/KW	13	GF	Internal	Resin-based materials	Electrical Box	Northern wall	Electrical Backing Board	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	1	m2	-			
29-Oct-18		DC/KW	13	GF	Internal	Flat cement product	Ceiling	South western office	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	8	m2	Unable to sample due to staff working within close proximity to possible sample locations			
29-Oct-18		DC/KW	13	GF	Internal	Flat cement product	Walls	South western office	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	10	m2	Unable to sample due to staff working within close proximity to possible sample locations			
29-Oct-18		DC/KW	13	GF	Internal	Moulded cement product	South western corner	Pipe	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Fair	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2	Pipe unable to be quantified as it leads into the inaccessible ceiling space			
Synthetic Mineral Fibres																								
29-Oct-18		DC/KW	13	GF	Internal	Thermal Insulation	Ceiling	Main portion of building	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Good	Low	Very high	Removal	Not required	100	m2	-			
29-Oct-18		DC/KW	13	01	Internal	Debris	Loose debris	Walkway below ceiling	Debris	Unsealed		Visual Observation	Presumed SMF until proven otherwise	Friable	Poor	Low	Very high	Removal	Not required	<1	m2	2 visible fragments			
29-Oct-18		DC/KW	13	GF	Internal	Thermal Insulation	Pipes - red and white	Western and southern aspect	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Fair	Low	Very high	Removal	Not required	15	Lm	-			
PCB Capacitors																								
29-Oct-18		DC/KW	13	GF	Internal	Capacitors	Light fittings	Ceiling of main store area and south western office	Light fittings	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Fair	Low	Very high	Removal	Not required	3	Item	-			
No Access Areas																								
Ceiling space of south western office (no access point) - anecdotal evidence from hospital staff indicates that the space was a former boiler room which was removed approximately 15 years ago																								

Asbestos Materials Register

Site Location: Distribution Kitchen (#14), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 29/10/2018

Consultant			Location / Description										Risk Assessment									Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The Distribution Kitchen (#14) is a single storey brick structure with a pitched tiled roof and both wooden and flat cement product eaves. Internally, the main kitchen area comprises vinyl lined floors, flat cement product ceilings and a combination of flat cement product and rendered brick walls. The partially enclosed external storage area to the north of the building has brick walls and a corrugated steel ceiling. The unused room to the west has flat cement product ceilings, concrete flooring and brick walls.																							
Asbestos Material Detected																									
29-Oct-18		DC/KW	14	GF	External	Resin-based materials	Electrical Box	Southern wall	Electrical Backing Board	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	1.5	m2	-			
29-Oct-18		DC/KW	14	GF	External	Flat cement product	Northern chemical store	External roof and FCS wall	Lining	Unsealed		GH-KW-027	Chrysotile Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	5	m2	-			
29-Oct-18		DC/KW	14	GF	External	Flat cement product	Ground	Western aspect	Debris	Unsealed		GH-KW-029	Chrysotile Detected	Non-friable	Poor	High	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	3 fragments removed as part of GH-KW-029. Presumed to be additional fragments amongst debris observed on floor			
29-Oct-18		DC/KW	14	GF	Internal	Flat cement product	Receiving area	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	300	m2	Unable to sample due to area being a fully operational food handling area			
29-Oct-18		DC/KW	14	GF	Internal	Flat cement product	Receiving area	FCS walls	Lining	Sealed	-	Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	20	m2	Unable to sample due to area being a fully operational food handling area			
29-Oct-18		DC/KW	14	GF	Internal	Flat cement product	Dry store	Ceiling	Lining	Sealed	-	Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	30	m2	Unable to sample due to area being a fully operational food handling area			
29-Oct-18		DC/KW	14	GF	Internal	Flat cement product	Female bathroom	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	4	m2	-			
29-Oct-18		DC/KW	14	GF	Internal	Flat cement product	Male bathroom	Ceiling	Lining	Sealed	As above	Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	4	m2	-			
29-Oct-18		DC/KW	14	GF	Internal	Moulded cement product	External storeroom	In ground service pit	Lining	Sealed	-	GH-KW-031	Chrysotile Detected	Non-friable	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	-			
29-Oct-18		DC/KW	14	GF	Internal	Flat cement product	Southern storeroom (unused)	Ceiling	Lining	Sealed		GH-KW-033	Chrysotile Detected	Non-friable	Poor	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	130	m2	Fallen fragments from the ceiling also observed on the ground			
29-Oct-18		DC/KW	14	GF	Internal	Flat cement product	Southern store room (unused)	Ground	Debris	Sealed		Refer GH-KW-033	Chrysotile Detected	Non-friable	Poor	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	130	m2	Several fragments observed on the ground throughout the unused storeroom			
29-Oct-18		DC/KW	14	GF	Internal	Asbestos textiles – ropes & yarns, cloth, gaskets & washers, strings	Southern storeroom (unused)	Pipe work	Gasket	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2	Gaskets observed throughout pipework in building. Presumed to be several located within inaccessible portions of the pipework			
No Asbestos Detected																									
29-Oct-18		DC/KW	14	GF	External	Flat cement product	Eaves	Northern aspect	Lining	Unsealed		GH-KW-026	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	20	m2	A combination of sealed and unsealed panels			

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
29-Oct-18		DC/KW	14	GF	External	Flat cement product	Eaves	Western aspect	Lining	Sealed		Ref GH-KW-026	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	20	m2	-			
29-Oct-18		DC/KW	14	GF	External	Flat cement product	Lining around roller door	Western aspect	Lining	Sealed		GH-KW-028	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	6	m2	-			
29-Oct-18		DC/KW	14	GF	External	Bitumen products	Lining underneath kitchen sink	South eastern corner of main kitchen	Lining	Sealed		GH-KW-030	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	1	m2	-			
29-Oct-18		DC/KW	14	GF	External	Bitumen products	Lining underneath sinks and benches	North western corner of main kitchen	Lining	Sealed		Ref GH-KW-030	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	3	m2	-			
29-Oct-18		DC/KW	14	GF	External	Sealant / Adhesives	Window putty	Wooden window frame - north western corner of external storeroom	Lining	Sealed		Ref GH-KW-016	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	<1	m2	-			
29-Oct-18		DC/KW	14	GF	Internal	Flat cement product	Southern store room (unused)	Ground	Debris	Sealed		GH-KW-032	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	<1	m2	One fragment collected as part of GH-KW-032. Several fragments observed on the ground throughout the unused storeroom			
Synthetic Mineral Fibres																									
29-Oct-18		DC/KW	14	GF	External	Thermal Insulation	Northern chemical store	Ceiling	Insulation	Unsealed		Visual Observation	Presumed SMF until proven otherwise	Friable	Poor	High	Very high	Removal	Not required	2	m2	-			
29-Oct-18		DC/KW	14	GF	External	Thermal Insulation	Rheem hot water heater	External storeroom	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Good	Low	Very high	Removal	Not required	1	m2	-			
29-Oct-18		DC/KW	14	GF	Internal	Thermal Insulation	Pipe conduit insulation	Southern storeroom (unused)	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Good	Low	Very high	Removal	Not required	NQ	Lm	Pipe observed to enter sub floor area (inaccessible). Possible ACM lagging located beneath sealed areas of the pipe			
>0.1% Lead Paint																									
29-Oct-18		DC/KW	14	GF	External	Paint	White painted external features	Southern aspect	Sealant	Sealed		GH-KW-025	6.1% w/w lead content detected	N/A	Fair	Medium	Very high	Removal	Not required	20	m2				
29-Oct-18		DC/KW	14	GF	External	Paint	Red/brown painted timber door	Southern storeroom (unused)	Sealant	Sealed		GH-KW-034	2.6% w/w lead content detected	N/A	Fair	Medium	Very high	Removal	Not required	5	m2	-			
No Access Areas																									
Distribution board/box - western external wall (padlocked) Ceiling space (poor structural integrity of the ceiling) Subfloor (two access points deemed to be confined spaces)																									

Asbestos Materials Register

Site Location: Carports and Gardener's Shed (no asset number), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 29/10/2018

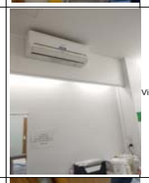
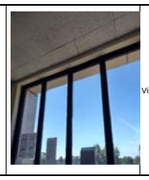
Consultant			Location / Description										Risk Assessment									Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			Located behind the Maintenance Workshop (#11), the Carports and Gardener's Shed consists of a concrete block single storey shed constructed on a concrete slab with a flat corrugated iron roof. Extending from the eastern wall is a carport with a corrugatated iron roof with a timber frame.																						
Asbestos Material Detected																									
29-Oct-18		DC/KW		GF	External	Moulded cement product	Carport	Southern end	Debris	Unsealed		GH-KW-001	Chrysotile Detected	Non-friable	Poor	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	2 fragments of moulded cement product observed. Both fragments removed as part of GH-KW-001			
29-Oct-18		DC/KW		GF	External	Sealant / Adhesives	Carport	Between concrete slabs	Expansion joint compound	Sealed		GH-KW-004	Chrysotile Detected	Non-friable	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	12	Lm	Chrysotile detected in white fibres located on the expansion joint compound. Recommend further sampling to determine if asbestos present within expansion joint mastic.			
29-Oct-18		DC/KW		GF	External	Resin-based materials	Electrical Box	Nothern wall	Electrical Backing Board	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	1	Item	-			
No Asbestos Detected																									
29-Oct-18		DC/KW		GF	External	Debris	Carport	Forklift storage cage - SW corner	Debris	Sealed		GH-KW-002	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	3	Item	3 rolls of vinyl sheeting - not in use			
29-Oct-18		DC/KW		GF	External	Flat cement product	Carport	Forklift storage cage - SW corner	Debris	Unsealed		GH-KW-003	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	6	m2	-			
>0.1% Lead Paint																									
29-Oct-18		DC/KW		GF	External	Paint	Timber door - brown paint	Nothern wall	Sealant	Sealed		GH-KW-005	0.13% w/w lead content detected	N/A	Poor	Medium	Very high	Removal	Not required	4	m2	Multi-layered brown paint system on timber door. Paint flaking.			
PCB Capacitors																									
29-Oct-18		DC/KW		GF	Internal	Capacitors	Double tube fitting	Eastern wall	Light fitting	N/A		Visual Observation	Presumed PCB until proven otherwise	N/A	Fair	Low	Very high	Removal	Not required	1	Item				
Ozone Depleting Substances																									
29-Oct-18		DC/KW		GF	External	Ozone depleting substance	Electrolux Air Conditioning unit - R22 refridgerant	Eastern wall	Refridgerant	N/A		Visual Observation	Presumed ODS until proven otherwise	N/A	Good	Low	Very high	Removal	Not required	1	Item	-			
No Access Areas																									
All areas accessed																									

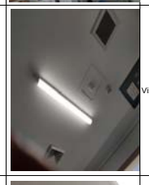
Asbestos Materials Register

Site Location: Areas of ICU (#1), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 05/12/2018

Consultant			Location / Description											Risk Assessment									Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			Specific areas of the ICU as nominated on Drawing No. 130565-DJRD-AR-DWG-B1_1102 Rev 9 dated 14/11/2018. NOTE- additional hazardous building materials for IPU identified within existing Hazardous Materials Survey prepared by ESP, July 2015 which must be referred too in addition to this register																						
Asbestos Material Detected																									
5-Dec-18		SM	1	GF	Internal	Flat cement product	Kitchenette/Lunch Room (Proposed Store)	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	13	m2	Possibly plaster board			
5-Dec-18		SM	1	GF	Internal	Flat cement product	Kitchenette/Lunch Room (Proposed Store)	Walls	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	30	m2	Possibly Brick/Masonary walls			
5-Dec-18		SM	1	GF	Internal	Floor sheeting	Kitchenette/Lunch Room (Proposed Store)	Vinyl floor sheeting	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	13	m2				
5-Dec-18		SM	1	GF	Internal	Flat cement product	Waiting Room (Proposed Bay 6)	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	9	m2	Possibly plaster board			
5-Dec-18		SM	1	GF	Internal	Flat cement product	Waiting Room (Proposed Bay 6)	Walls	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	15	m2	Possibly Brick/Masonary walls			
5-Dec-18		SM	1	GF	Internal	Floor sheeting	Waiting Room (Proposed Bay 6)	Vinyl floor sheeting	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	9	m2				
5-Dec-18		SM	1	GF	Internal	Flat cement product	Lunch Room (Proposed disposal room)	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	8	m2	Possibly plaster board			
5-Dec-18		SM	1	GF	Internal	Flat cement product	Lunch Room (Proposed disposal room)	Walls	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	20	m2	Possibly Brick/Masonary walls			

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
5-Dec-18		SM	1	GF	Internal	Floor sheeting	Lunch Room (Proposed disposal room)	Vinyl floor sheeting	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	8	m2				
5-Dec-18		SM	1	GF	Internal	Flat cement product	Inside/Outside of Southern End Wall	Walls	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
5-Dec-18		SM	1	GF	Internal	Floor sheeting	Inside/Outside of Southern End Wall	Vinyl floor sheeting	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
5-Dec-18		SM	1	GF	External	Bitumen products	Inside/Outside of Southern End Wall	Bitumin membrane to concrete floor joint	Sealant	Unsealed		Visual Observation	Presumed to contain asbestos until proven otherwise	N/A	Poor	Low	Very high	Removal	Not required	NQ	m2				
5-Dec-18		SM	1	GF	Internal	Flat cement product	Patients Room (Proposed Waiting Room)	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
5-Dec-18		SM	1	GF	Internal	Flat cement product	Patients Room (Proposed Waiting Room)	Walls	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
5-Dec-18		SM	1	GF	Internal	Floor sheeting	Patients Room (Proposed Waiting Room)	Vinyl floor sheeting	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
Synthetic Mineral Fibres																									
5-Dec-18		SM	1	GF	Internal	Flat cement product	Inside/Outside of Southern End Wall	Ceiling	Lining	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
>0.1 % Lead Paint																									
5-Dec-18		SM	1	GF	Internal	Paint	Kitchenette/Lunch Room (Proposed Store)	White paint to walls	Sealant	Sealed		Visual Observation	Presumed greater than 0.1% w/w lead content	N/A	Good	Low	Very high	Removal	Not required	20	m2	Unknown if layers of paint present			

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
5-Dec-18		SM	1	GF	Internal	Paint	Waiting Room (Proposed Bay 6)	White paint to walls	Sealant	Sealed		Visual Observation	Presumed greater than 0.1% w/w lead content	N/A	Good	Low	Very high	Removal	Not required	15	m2	Unknown if layers of paint present			
5-Dec-18		SM	1	GF	Internal	Paint	Lunch Room (Proposed disposal room)	White paint to walls	Sealant	Sealed		Visual Observation	Presumed greater than 0.1% w/w lead content	N/A	Good	Low	Very high	Removal	Not required	20	m2	Unknown if layers of paint present			
5-Dec-18		SM	1	GF	Internal	Paint	Inside/Outside of Southern End Wall	White paint to walls	Sealant	Sealed		Visual Observation	Presumed greater than 0.1% w/w lead content	N/A	Good	Low	Very high	Removal	Not required	NQ	m2	Unknown if layers of paint present			
5-Dec-18		SM	1	GF	Internal	Paint	Patients Room (Proposed Waiting Room)	White paint to walls	Sealant	Sealed		Visual Observation	Presumed greater than 0.1% w/w lead content	N/A	Good	Low	Very high	Removal	Not required	NQ	m2	Unknown if layers of paint present			
PCB Capacitors																									
5-Dec-18		SM	1	GF	Internal	Capacitors	Kitchenette/Lunch Room (Proposed Store)	Light fitting	Capacitor	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Low	Very high	Removal	Not required	1	Item				
5-Dec-18		SM	1	GF	Internal	Capacitors	Waiting Room (Proposed Bay 6)	Light fitting	Capacitor	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Low	Very high	Removal	Not required	1	Item				
5-Dec-18		SM	1	GF	Internal	Capacitors	Lunch Room (Proposed disposal room)	Light fitting	Capacitor	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Low	Very high	Removal	Not required	1	Item				
5-Dec-18		SM	1	GF	Internal	Capacitors	Patients Room (Proposed Waiting Room)	Light fitting	Capacitor	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Low	Very high	Removal	Not required	8	Item				
No Access Areas																									

Only specific areas of the ICU as nominated on Drawing No. 130565-DJRD-AR-DWG-B1_1102 Rev 9 dated 14/11/2018 were visually accessed. It is not known wether these areas assessed are applicable or cover all areas associated with works. It is not known wether the specific ICU and IPU areas assessed are applicable or cover all areas associated with proposed works. The assessment of these areas was significantly restricted due to the on-going use of the buildings and sensitivity of occupants. The assessment was limited to a visual assessment only with no sampling possible. Further, it is unknown if the areas assessed correlate with areas to be subject to be impact by planned demolition/refurbishment works.

Asbestos Materials Register

Site Location: Areas of IPU (#2), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 05/12/2018

Consultant			Location / Description										Risk Assessment									Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			Specific areas of the IPU as nominated on Drawing No. 130565-DJRD-AR-DWG-B2_1102 Rev 4 dated 14/11/2018 NOTE- additional hazardous building materials for IPU identified within existing Hazardous Materials Survey prepared by ESP, July 2015 which must be referred too in addition to this register																					
Asbestos Material Detected																								
5-Dec-18		SM	2	GF	External	Flat cement product	External	Eave	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2	Possibly metallic			
5-Dec-18		SM	2	GF	Internal	Flat cement product	Inside of Southern Wall	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
5-Dec-18		SM	2	GF	Internal	Flat cement product	Inside of Southern Wall	Walls	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
5-Dec-18		SM	2	GF	Internal	Floor sheeting	Inside of Southern Wall	Vinyl floor sheeting	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
5-Dec-18		SM	2	01	Internal	Flat cement product	Inside of Southern Wall	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
5-Dec-18		SM	2	01	Internal	Flat cement product	Inside of Southern Wall	Walls	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
5-Dec-18		SM	2	01	Internal	Floor sheeting	Inside of Southern Wall	Vinyl floor sheeting	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	m2				
>0.1 % Lead Paint																								
5-Dec-18		SM	2	GF	External	Paint	External	Gutter Paint	Sealant	Sealed		Visual Observation	Presumed greater than 0.1% w/w lead content	N/A	Good	Low	Very high	Removal	Not required	NQ	m2				

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
5-Dec-18		SM	2	GF	Internal	Paint	Inside of Southern Wall	White paint to walls	Sealant	Sealed		Visual Observation	Presumed greater than 0.1% w/w lead content	N/A	Good	Low	Very high	Removal	Not required	NQ	m2	Unknown if layers of paint present			
5-Dec-18		SM	2	01	External	Paint	External	Gutter Paint	Sealant	Sealed		Visual Observation	Presumed greater than 0.1% w/w lead content	N/A	Good	Low	Very high	Removal	Not required	NQ	m2				
5-Dec-18		SM	2	01	Internal	Paint	Inside of Southern Wall	White paint to walls	Sealant	Sealed		Visual Observation	Presumed greater than 0.1% w/w lead content	N/A	Good	Low	Very high	Removal	Not required	NQ	m2	Unknown if layers of paint present			
PCB Capacitors																									
5-Dec-18		SM	2	GF	Internal	Capacitors	Inside of Southern Wall	Light fitting	Capacitor	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Low	Very high	Removal	Not required	1	Item				
5-Dec-18		SM	2	01	Internal	Capacitors	Inside of Southern Wall	Light fitting	Capacitor	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Low	Very high	Removal	Not required	1	Item				
No Access Areas																									
Only specific areas of the IPU as nominated on Drawing No. 130565-DJRD-AR-DWG-B2_1102 Rev 4 dated 14/11/2018 were visually accessed. It is not known wether the areas assessed are applicable or cover all areas associated with works. It is not known wether the specific ICU and IPU areas assessed are applicable or cover all areas associated with proposed works. The assessment of these areas was significantly restricted due to the on-going use of the buildings and sensitivity of occupants. The assessment was limited to a visual assessment only with no sampling possible. Further, it is unknown if the areas assessed correlate with areas to be subject to be impact by planned demolition/refurbishment works.																									

Asbestos Materials Register

Site Location: Linen Handling Building (#21), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 30/10/2018

Consultant			Location / Description										Risk Assessment								Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The Linen Handling Building (#21) is a single storey brick structure constructed on piles with a pitched tiled roof. External walls are a combination of brick with flat cement product infill panels. Internally, floors are carpeted or lined with vinyl floor tiles. Ceilings and walls are lined with flat cement product. The south eastern end of the building adjoins onto a hallway leading to other portions of the hospital. This hallway is considered outside the scope of this hazardous materials survey.																						
Asbestos Material Detected																									
30-Oct-18		DC/KW	21	GF	External	Flat cement product	White infill panels	North eastern aspect	Lining	Sealed		GH-KW-056	Chrysotile Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	40	m2	-			
30-Oct-18		DC/KW	21	GF	External	Flat cement product	White infill panels around windows	North western aspect	Lining	Sealed		Ref GH-KW-056	Chrysotile Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	12	m2	-			
30-Oct-18		DC/KW	21	GF	External	Flat cement product	White infill panels around windows	South western aspect	Lining	Sealed		Ref GH-KW-056	Chrysotile Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	10	m2	-			
30-Oct-18		DC/KW	21	GF	External	Flat cement product	South western aspect	Ground	Debris	Sealed		GH-KW-058	Chrysotile, Amosite & Crocidolite Detected	Non-friable	Poor	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	Approximately 20 fragments observed in surface soils. 3 fragments collected as part of GH-KW-058. Sieving may reveal further fragments in surface soils. Recommend further investigation.			
30-Oct-18		DC/KW	21	GF	External	Resin-based materials	Electrical Box	South eastern aspect	Electrical Backing Board	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	1	m2	-			
30-Oct-18		DC/KW	21	GF	External	Flat cement product	Eaves	South eastern aspect	Lining	Sealed		GH-KW-060	Chrysotile Detected	Non-friable	Fair	Low	Very high	Removal	Labels required (not affixed or not sufficient)	12	m2	-			
30-Oct-18		DC/KW	21	GF	Internal	Floor tiles	Rear hallway	Floor	Lining	Sealed		GH-KW-061	Chrysotile Detected	Non-friable	Fair	High	Very high	Removal	Labels required (not affixed or not sufficient)	120	m2	Chrysotile detected in the grey tiles. No asbestos detected in the tile adhesive			
30-Oct-18		DC/KW	21	GF	Internal	Flat cement product	Rear hallway	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	120	m2	Unable to sample due to staff moving regularly with large trolleys during the survey (operational building)			
30-Oct-18		DC/KW	21	GF	Internal	Flat cement product	Central Hallway Storeroom	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	6	m2	Unable to sample due to staff moving regularly with large trolleys during the survey (operational building)			
30-Oct-18		DC/KW	21	GF	Internal	Flat cement product	South western corner room	Walls and Ceiling	Lining	Sealed	-	Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	100	m2	Unable to sample - room inaccessible			
No Asbestos Detected																									
30-Oct-18		DC/KW	21	GF	External	Flat cement product	Infill panel around entry door	North western aspect	Lining	Sealed		GH-KW-055	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	10	m2	-			
30-Oct-18		DC/KW	21	GF	External	Flat cement product	Subfloor access panel	South eastern aspect	Lining	Sealed		GH-KW-059	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	1.5	m2	-			
30-Oct-18		DC/KW	21	GF	Internal	Flat cement product	Rear hallway	Walls	Lining	Sealed		GH-KW-062	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	80	m2	-			

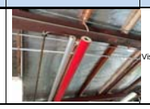
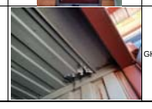
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
30-Oct-18		DC/KW	21	GF	Internal	Flat cement product	North western wall panel	Around rear entry wall	Lining	Sealed		Ref GH-KW-055	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	7	m2	-			
<0.1 % Lead Paint																									
30-Oct-18		DC/KW	21	GF	External	Paint	White paint	South west timber features (below infill panels)	Sealant	Sealed		GH-KW-057	0.01% w/w lead content detected	N/A	N/A	N/A	N/A	N/A	N/A	3	m2	-			
30-Oct-18		DC/KW	21	GF	External	Paint	White paint	External timber wall panels	Sealant	Sealed	-	GH-KW-057	0.01% w/w lead content detected	N/A	N/A	N/A	N/A	N/A	N/A	15	m2	-			
30-Oct-18		DC/KW	21	GF	External	Paint	White paint	Eaves - North western, south western and north eastern aspects	Sealant	Sealed		GH-KW-057	0.01% w/w lead content detected	N/A	N/A	N/A	N/A	N/A	N/A	25	m2	-			
Non-Ozone Depleting Substances																									
30-Oct-18		DC/KW	21	GF	External	Ozone depleting substance	Mitsubishi Air Conditioning Unit - R410A refridgerant	South western wall	Refridgerant	Sealed		Visual Observation	Non-ODS	N/A	N/A	N/A	N/A	N/A	N/A	2	Item	-			
No Access Areas																									
Subfloor (south eastern aspect) - Access panel screwed shut 4 offices/rooms adjoining central hallway - locked (PIN required) Information Services room - locked South western corner room - locked																									

Asbestos Materials Register

Site Location: Maintenance Workshop (#11), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 29/10/2018

Consultant			Location / Description										Risk Assessment								Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The Maintenance Workshop (#11) is a single storey brick building, with a flat corrugated iron roof. The southern end of the main building contains a series of administration offices, whilst the northern end contains a workshop. Internally, floor linings include carpet and vinyl sheeting in the offices, tiles in the bathroom and unlined concrete in the workshop. The administration area ceiling is lined with flat cement product, whilst the workshop ceiling is lined with sarking. Walls throughout the entire building are a combination of brick and flat cement product. Immediately west of the workshop is a red steel shipping container that is unlined on the inside and contains various building materials and debris.																					
Asbestos Material Detected																									
29-Oct-18		DC/KW	11	GF	External	Moulded cement product	In ground service pit between two entry doors	Eastern aspect	In ground service pit	Sealed		GH-KW-010	Chrysotile & Amosite Detected	Non-friable	Fair	Low	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	<1 m^2 visible above the ground, presumed to contain more below the ground surface			
29-Oct-18		DC/KW	11	GF	Internal	Flat cement product	Wall	Central photocopier room	Lining	Sealed		GH-KW-011	Chrysotile Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	4	m2	GH-KW-011 is representative of all admin area walls, and workshop walls			
29-Oct-18		DC/KW	11	GF	Internal	Flat cement product	Walls	Internal walls of administration office areas	Lining	Sealed		Ref GH-KW-011	Chrysotile Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	80	m2	-			
29-Oct-18		DC/KW	11	GF	Internal	Flat cement product	Ceiling	Manhole in shower	Lining	Sealed		GH-KW-012	Chrysotile Detected	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	2	m2	GH-KW-012 is representative of all admin area ceilings			
29-Oct-18		DC/KW	11	GF	Internal	Flat cement product	Ceiling	Ceilings of all administration office areas	Lining	Sealed		Ref GH-KW-012	Chrysotile Detected	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	30	m2	-			
29-Oct-18		DC/KW	11	GF	Internal	Flat cement product	Walls	Flat cement product internal walls of workshop	Lining	Sealed		GH-KW-013	Chrysotile Detected	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	30	m2	-			
29-Oct-18		DC/KW	11	GF	Internal	Flat cement product	Ceiling	Small office within workshop	Lining	Sealed		Ref GH-KW-013	Chrysotile Detected	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	8	m2	-			
29-Oct-18		DC/KW	11	GF	Internal	Resin-based materials	Electrical Box	Eastern wall of workshop	Electrical Backing Board	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	-			
No Asbestos Detected																									
29-Oct-18	29-Oct-21	DC/KW	11	GF	External	Sealant / Adhesives	Expansion joint compound	Western wall - between bricks	Expansion joint compound	Sealed		GH-KW-006	No Asbestos Fibres Detected	Non-friable	N/A	N/A	N/A	N/A	N/A	N/A	6	Lm	-			
29-Oct-18	29-Oct-21	DC/KW	11	GF	External	Sealant / Adhesives	Window putty	External metal framed windows	Window Putty	Sealed		GH-KW-007	No Asbestos Fibres Detected	Non-friable	N/A	N/A	N/A	N/A	N/A	N/A	5	Lm	-			
29-Oct-18	29-Oct-21	DC/KW	11	GF	Internal	Sealant / Adhesives	Gasket	Western wall of workshop	Gasket	Sealed		GH-KW-014	No Asbestos Fibres Detected	Non-friable	N/A	N/A	N/A	N/A	N/A	N/A	3	Item	-			
Synthetic Mineral Fibres																									
29-Oct-18		DC/KW	11	GF	Internal	Thermal insulation	Ceiling	Workshop	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-Friable	Good	Low	Very high	Removal	Not required	390	m2	-			
29-Oct-18		DC/KW	11	GF	Internal	Thermal insulation	Loose insulation	Above workshop office ceiling	Insulation	Unsealed		Visual Observation	Presumed SMF until proven otherwise	Friable	Poor	Low	Very high	Removal	Not required	1	m2	-			

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
29-Oct-18		DC/KW	11	GF	Internal	Thermal insulation	Former steam pipes (red and silver)	Northern end of workshop	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Friable	Good	Low	Very high	Removal	Not required	30	Lm	-			
>0.1% Lead Paint																									
29-Oct-18		DC/KW	11	GF	External	Paint	Western wall	Timber Door Frame (brown paint system)	Sealant	Sealed		GH-KW-008	0.23% w/w lead content detected	N/A	N/A	N/A	N/A	N/A	N/A	1	m2	-			
29-Oct-18		DC/KW	11	GF	External	Paint	Shipping container	Internal walls (grey paint system)	Sealant	Sealed		GH-KW-009	0.14% w/w lead content detected	N/A	N/A	N/A	N/A	N/A	N/A	25	m2	-			
PCB Capacitors																									
29-Oct-18		DC/KW	11	GF	External	Capacitors	Amongst debris on western side of building	Capacitor - ACO 8.9 NF+10	Light fitting	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Poor	Medium	Very high	Removal	Not required	1	Item	-			
29-Oct-18		DC/KW	11	GF	Internal	Capacitors	Throughout interior of building	Various locations	Light fitting	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Low	Very high	Removal	Not required	50	Item	-			
Non-Ozone Depleting Substances																									
29-Oct-18		DC/KW	11	GF	External	Ozone depleting substance	Toshiba Inverter Air Conditioning unit - R410A refridgerant	Southern wall	Refridgerant	Sealed		Visual Observation	Non-ODS	N/A	N/A	N/A	N/A	N/A	N/A	4	Item	-			
No Access Areas																									
Northern metal cabinet structure (former steam pipes) Southern plant room - door locked																									

Asbestos Materials Register

Site Location: Mortuary (#10), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 30/10/2018 and 31/10/2018

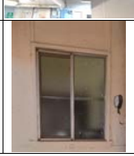
Consultant			Location / Description											Risk Assessment									Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The Mortuary (#10) is a single storey brick building constructed on a concrete slab with a pitched corrugated iron roof. Internally, walls are gyprock and flat cement product, whilst vinyl sheeting lines all floor surfaces, with the exception of the toilet and shower rooms which are lined with ceramic tiles. The ceilings are lined with flat cement product, with the exception of the gyprock lined office.																							
Presumed Asbestos Containing Material																									
30-Oct-18		DC/KW	10	GF	External	Thermal insulation	Millboard core inside duct surrounding EDH	North eastern cage	Insulation	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Friable	-	High	Very high	Removal	Labels required (not affixed or not sufficient)	2	m2	Not observed during inspection as no access possible to internal duct. Recommend further inspection and sampling prior to demolition.			
No Asbestos Detected																									
30-Oct-18		DC/KW	10	GF	External	Flat cement product	Screen (decorative)	South Western Entrance	Lining	Sealed		GH-KW-068	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	12	m2	-			
30-Oct-18		DC/KW	10	GF	External	Flat cement product	Eaves	North Western aspect	Lining	Sealed		GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	10	m2	-			
30-Oct-18		DC/KW	10	GF	External	Flat cement product	Eaves	North Eastern, South Eastern and South Western aspects	Lining	Sealed		Ref GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	40	m2	GH-KW-069 also representative of the patio awning lining the south western entrance			
30-Oct-18		DC/KW	10	GF	External	Flat cement product	Ceiling	North eastern cage	Lining	Unsealed		Ref GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	30	m2	-			
30-Oct-18		DC/KW	10	GF	External	Sealant / Adhesives	EDH to duct, millboard exposed to edge of unit	North eastern cage	Sealant	Unsealed		GH-KW-070	No Asbestos Fibres Detected	Friable	N/A	N/A	N/A	N/A	N/A	0.8	Lm				
31-Oct-18		DC/KW	10	GF	External	Flat cement product	External walls	Northern entry	Lining	Sealed		Ref GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	4	m2	-			
31-Oct-18		DC/KW	10	GF	Internal	Flat cement product	Upper wall panels	Toilet/Shower	Lining	Sealed		Ref GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	16	m2	-			
31-Oct-18		DC/KW	10	GF	Internal	Flat cement product	Walls	Entry to office and toilet	Lining	Sealed		Ref GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	64	m2	-			
31-Oct-18		DC/KW	10	GF	Internal	Flat cement product	Walls	Preparation room	Lining	Sealed		Ref GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	100	m2	-			
31-Oct-18		DC/KW	10	GF	Internal	Flat cement product	Walls	South Western Front Room	Lining	Sealed		Ref GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	64	m2	-			
31-Oct-18		DC/KW	10	GF	Internal	Flat cement product	Walls	Viewing Room	Lining	Sealed		Ref GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	100	m2	-			

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
31-Oct-18		DC/KW	10	GF	Internal	Flat cement product	Ceiling	Throughout building (excluding office)	Lining	Sealed		Ref GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	300	m2	-			
31-Oct-18		DC/KW	10	GF	External	Flat cement product	External walls	Northern entry	Lining	Sealed		Ref GH-KW-069	No Asbestos Fibres Detected	Non-Friable	N/A	N/A	N/A	N/A	N/A	4	m2	-			
Synthetic Mineral Fibres																									
31-Oct-18		DC/KW	10	GF	External	Thermal insulation	Rheem hot water system	North eastern cage	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-Friable	Good	Medium	Very high	Removal	Not required	2	Item	-			
No Access Areas																									
Ceiling space - cupboard blocking access																									

Asbestos Materials Register

Site Location: Old Kitchen and Staff Dining Room (#18), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 30/10/2018

Consultant			Location / Description										Risk Assessment								Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The Old Kitchen and Staff Dining Room (#18) is a brick building constructed on piers with a pitched tiled roof. Constructed from bricks and concrete, the subfloor area contains various pipes and plant. The ground floor comprises a former kitchen, a staff dining room and a series of store rooms, some of which are still operational. Internal ceiling linings are predominantly flat cement product. Floor linings are vinyl sheeting and concrete. Walls are constructed from rendered brick, flat cement product and gyprock. The south eastern rooms of the building adjoin a hallway which leads to other portions of the hospital. The hallway is considered outside the scope of this hazardous materials survey.																						
Asbestos Material Detected																								
30-Oct-18		DC/KW	18	GF	Internal	Resin-based materials	Electrical Box	North western storage hut	Electrical backing board	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Fair	Low	Very high	Removal	Labels required (not affixed or not sufficient)	2	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	North western storage hut	Debris panel	Debris	Sealed		GH-KW-040	Chrysotile Detected	Non-friable	Poor	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	2	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	White infill panels	South eastern aspect	Lining	Sealed		GH-KW-043	Chrysotile & Amosite Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	4	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	White infill panels	South western aspect	Lining	Sealed		Ref GH-KW-043	Chrysotile & Amosite Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	2	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Brown infill panels	Multiple external aspects	Lining	Sealed		GH-KW-044	Chrysotile Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	12	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	FCS debris on ground	South western aspect	Debris	Unsealed		GH-KW-045	Chrysotile Detected	Non-friable	Poor	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	1 fragment removed as part of GH-KW-045			
30-Oct-18		DC/KW	18	GF	Internal	Floor tiles	Vinyl floor tile debris on ground	South western aspect	Debris	Sealed		GH-KW-046	Chrysotile Detected	Non-friable	Poor	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	Multiple vinyl floor tile fragments observed. 3 fragments removed as part of GH-KW-046			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	External walls of caged area	North eastern aspect	Lining	Sealed		GH-KW-047	Chrysotile Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	4	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Ceiling of caged area	North eastern aspect	Lining	Sealed		Ref GH-KW-047	Chrysotile Detected	Non-friable	Fair	Low	Very high	Removal	Labels required (not affixed or not sufficient)	1.5	m2	-			
30-Oct-18		DC/KW	18	GF	External	Flat cement product	Ceiling	Above external rear entry door	Lining	Sealed		Ref GH-KW-047	Chrysotile Detected	Non-friable	Fair	Low	Very high	Removal	Labels required (not affixed or not sufficient)	1	m2	-			
30-Oct-18		DC/KW	18	GF	External	Flat cement product	Ceiling	Old Kitchen	Lining	Sealed		Ref GH-KW-047	Chrysotile Detected	Non-friable	Fair	Low	Very high	Removal	Labels required (not affixed or not sufficient)	200	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Moulded cement product	Joining strip - wall of caged area	North eastern aspect	Lining	Sealed		GH-KW-048	Chrysotile Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	4	Lm	-			

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
30-Oct-18		DC/KW	18	Basement	Internal	Sealant / Adhesives	Gaskets	Throughout pipe work in basement	Sealant	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	Item	Various gaskets throughout pipework. Unable to quantify due to inability to destruct pipework (operational building and inaccessible areas where pipework leads to)			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Staff dining room	Hallway walls	Lining	Sealed		Ref GH-KW-043	Chrysotile Detected	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	20	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Asbestos textiles – ropes & yarns, cloth, gaskets & washers, strings	Kitchen/Store - Luke Sterlec Machinery	Rope lining around pipe	Sealant	Unsealed		GH-KW-054	Chrysotile Detected	Friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	Lm	Unable to quantify as rope lining/sealant goes into walls of machine			
30-Oct-18		DC/KW	18	GF	Internal	Sealant / Adhesives	Ductwork flange joints	Throughout Old Kitchen	Sealant	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Fair	Low	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	Lm	Unable to quantify without accessing inside of ductwork			
30-Oct-18		DC/KW	18	GF	Internal	Asbestos boards – insulating board in cores & linings	Old Kitchen/Store	Millboard core in sliding door - south eastern wall	Insulation/Fire resistance	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	5	m2	-			
No Asbestos Detected																									
30-Oct-18		DC/KW	18	GF	External	Flat cement product	Sub floor access panel	North western aspect	Lining	Unsealed		GH-KW-041	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	<1	m2	1 panel north western aspect			
30-Oct-18		DC/KW	18	GF	External	Sealant / Adhesives	Window putty	Wooden window frames throughout exterior	Sealant	Sealed		GH-KW-042	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	10	m2	-			
30-Oct-18		DC/KW	18	Basement	Internal	Flat cement product	Debris FCS	Leaning against south western wall	Debris	Unsealed		GH-KW-049	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	10	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Kitchen/canteen	South eastern wall	Lining	Sealed		GH-KW-050	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	3	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Kitchen/canteen	Wall panels throughout	Lining	Sealed	-	Ref GH-KW-050	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	2	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Kitchen/canteen	Infill panel above "Restricted Access" door	Lining	Sealed		Ref GH-KW-050	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	1	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Laundry	Infill panel above washing machine	Lining	Sealed		Ref GH-KW-050	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	2	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Old Kitchen/Store	Infill panel around side door	Lining	Sealed		Ref GH-KW-050	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	3	m2	-			

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Old Kitchen/Store	Southern corner storeroom - North eastern wall	Lining	Sealed		Ref GH-KW-050	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	20	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Staff dining room	North eastern wall panel	Lining	Sealed		Ref GH-KW-050	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	3	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Floor sheeting	"Restricted Access" Room	Floor	Lining	Sealed		GH-KW-051	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	10	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Rear hallway	Manhole and ceiling	Lining	Sealed		GH-KW-052	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	20	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Laundry	Manhole	Lining	Sealed		Ref GH-KW-052	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	<1	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Old Kitchen/Store	Beam infill panel	Lining	Sealed		Ref GH-KW-052	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	10	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Flat cement product	Old Kitchen/Store	Dividing wall	Lining	Unsealed		GH-KW-053	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	30	m2	-			
Synthetic Mineral Fibres																									
30-Oct-18		DC/KW	18	GF	External	Thermal insulation	Pipe insulation	North western aspect	Insulation	Unsealed		Visual Observation	Presumed SMF until proven otherwise	Friable	Fair	Medium	Very high	Removal	Not required	NQ	Lm	Pipe contains both sealed and unsealed SMF. Unable to quantify length of pipe as it extends into inaccessible subfloor area			
30-Oct-18		DC/KW	18	GF	External	Thermal insulation	Pipework adjoining Rinnai hot water unit	North eastern aspect	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Good	Medium	Very high	Removal	Not required	6	Lm	-			
30-Oct-18		DC/KW	18	GF	External	Thermal insulation	Corner of caged area	North eastern aspect	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Fair	Medium	Very high	Removal	Not required	NQ	Lm	Unable to be quantified as the pipe extends into ceiling space			
30-Oct-18		DC/KW	18	GF	Internal	Thermal insulation	Debris SMF	South eastern wall	Debris	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Poor	Medium	Very high	Removal	Not required	2	m2	-			
30-Oct-18		DC/KW	18	GF	Internal	Thermal insulation	Pipe work	North eastern and north western walls	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Fair	Medium	Very high	Removal	Not required	20	Lm	Pipes lead to other areas within this building			
30-Oct-18		DC/KW	18	GF	Internal	Thermal insulation	Pipe work on south western wall	Old Kitchen/Store - Southern corner store room	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Fair	Medium	Very high	Removal	Not required	NQ	Lm	Unable to be quantified as pipe extends behind a sealed area (unable to open due to being an operational facility)			
>0.1 % Lead Paint																									
30-Oct-18		DC/KW	18	GF	External	Paint	Eaves (white)	North western aspect	Sealant	Sealed		GH-KW-038	8.6% w/w lead content detected	N/A	Fair	Low	Very high	Removal	Not required	10	m2	GH-KW-038 collected from timber eave			

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
30-Oct-18		DC/KW	18	GF	External	Paint	White external features	All aspects	Sealant	Sealed		Ref GH-KW-038	8.6% w/w lead content detected	N/A	Fair	Medium	Very high	Removal	Not required	40	m2	-			
30-Oct-18		DC/KW	18	GF	External	Paint	Brown timber door	North western aspect	Sealant	Sealed		GH-KW-039	0.58% w/w lead content detected	N/A	Poor	Medium	Very high	Removal	Not required	2	m2	-			
PCB Capacitors																									
30-Oct-18		DC/KW	18	GF	Internal	Capacitors	Light fitting	North western storage hut	Light fitting	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Medium	Very high	Removal	Not required	3	Item	-			
30-Oct-18		DC/KW	18	Basement	Internal	Capacitors	Light fitting	Subfloor ceiling	Light fitting	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Medium	Very high	Removal	Not required	1	Item	-			
30-Oct-18		DC/KW	18	Basement	Internal	Capacitors	Light fitting	Old Kitchen/Store	Light fitting	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Medium	Very high	Removal	Not required	2	Item	-			
Non-Ozone Depleting Substances																									
30-Oct-18		DC/KW	18	GF	External	Ozone depleting substance	Mitsubishi Air Conditioning Unit - R410 refridgerant	North western aspect	Refridgerant	Sealed		Visual Observation	Non-ODS	N/A	Good	Low	Very high	Removal	Not required	1	Item	-			
30-Oct-18		DC/KW	18	GF	External	Ozone depleting substance	Fujitsu Air Conditioning Unit - R410 refridgerant	North western aspect	Refridgerant	Sealed		Visual Observation	Non-ODS	N/A	Good	Low	Very high	Removal	Not required	1	Item	-			
No Access Areas																									
Subfloor pipe/cable tunnel - North western aspect (access hatches screwed shut) Storeroom northern corner (external access door obstructed) Room off rear hallway (silver lock - PIN required) Side room off entry hallway to staff dining room (locked) Ceiling space (no safe access point)																									

Asbestos Materials Register

Site Location: Oncology and Specialist Clinic 1 (#7), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 30/10/2018

Consultant			Location / Description										Risk Assessment									Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The Oncology and Specialist Clinic 1 building (#7) comprises a brick structure with a pitched corrugated iron roof constructed on a concrete slab. Windows are metal framed, whilst eaves are flat cement product. Internally, the floors are lined with modern vinyl sheeting whilst the walls are lined with brick and gyprock with the exception of former fireplace infill panels in Consulting Rooms 1, 2 and 3. The plant room located upstairs on the first floor has unlined concrete floors, brick walls and SMF sarking lined ceilings. This building adjoins the Assessment, Rehabilitation and Physio Building (#8).																							
Asbestos Material Detected																										
30-Oct-18		DC/KW	7	01	Internal	Flat cement product	Upstairs Plant Room	On ground below ductwork	Packing/Debris	Unsealed		GH-KW-067	Chrysotile Detected	Non-friable	Poor	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	Multiple fragments. One fragment removed as part of GH-KW-067.			
30-Oct-18		DC/KW	7	01	Internal	Thermal insulation	Upstairs Plant Room - eastern end	Green pipework	Thermal Insulation	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	NQ	Lm	Unable to inspect within encasing to determine type of pipe insulation present.			
30-Oct-18		DC/KW	7	GF	Internal	Flat cement product	Consulting Room 1	Central panel - Eastern wall	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	3	m2	Unable to sample (operational consulting room with patients entering)			
30-Oct-18		DC/KW	7	GF	Internal	Flat cement product	Consulting Room 2	Central panel - Western wall	Lining	Sealed	As above	Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	3	m2	Unable to sample (operational consulting room with patients entering)			
30-Oct-18		DC/KW	7	GF	External	Flat cement product	Consulting Room 3	Central panel - Eastern wall	Lining	Sealed	As above	Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	3	m2	Unable to sample (operational consulting room with patients entering)			
No Asbestos Detected																										
30-Oct-18		DC/KW	7	GF	External	Flat cement product	Eaves	Northern, western and eastern aspects	Lining	Sealed		Ref GH-KW-063	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	80	m2	-			
30-Oct-18		DC/KW	7	GF	External	Flat cement product	Screen (decorative)	Northern and eastern aspects	Lining	Sealed		GH-KW-066	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	30	m2	-			
Synthetic Mineral Fibres																										
30-Oct-18		DC/KW	7	01	Internal	Thermal insulation	Upstairs Plant Room	Ductwork	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Fair	Medium	Very high	Removal	Not required	NQ	Lm	Unable to quantify total SMF due to part of ductwork leading to inaccessible area behind wall. Mostly sealed. One visible section where SMF is unsealed (see photo)			
30-Oct-18		DC/KW	7	01	Internal	Thermal insulation	Upstairs Plant Room	Ceiling - sarking	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Fair	Medium	Very high	Removal	Not required	100	m2	-			
30-Oct-18		DC/KW	7	01	Internal	Thermal insulation	Upstairs Plant Room	Floor	Debris	Unsealed		Visual Observation	Presumed SMF until proven otherwise	Friable	Poor	Medium	Very high	Removal	Not required	NQ	m2	Unable to quantify total SMF due to inability to access all areas of the floor (live electrical cables restricting access)			
Ozone Depleting Substances																										
30-Oct-18		DC/KW	7	GF	External	Ozone depleting substance	Apac Heat Pump - Air Conditioner #1 and Air Conditioner #2 - R22 refridgerant	Immediately south east of the building	Refridgerant	Sealed		Visual Observation	Presumed ODS until proven otherwise	N/A	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	2	Item	-			
30-Oct-18		DC/KW	7	01	Internal	Ozone depleting substance	Upstairs Plant Room - eastern end	Apac Air conditioner #1 and Apac Air conditioner #2 - R22 Refridgerant	Refridgerant	Sealed		Visual Observation	Presumed ODS until proven otherwise	N/A	Fair	Medium	Very high	Removal	Not required	2	Item	-			
Non-Ozone Depleting Substances																										

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
30-Oct-18		DC/KW	7	GF	External	Ozone depleting substance	Fujitsu Air Conditioning Unit - R410A Refridgerant	Immediately south east of the building	Refridgerant	Sealed		Visual Observation	Non-ODS	N/A	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	1	Item	-			

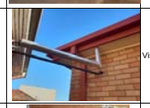
No Access Areas

Chemotherapy Room (occupied by patients)
Upstairs plant room - ductwork behind wall

Asbestos Materials Register

Site Location: Renal Unit (#15), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 30/10/2018

Consultant			Location / Description										Risk Assessment								Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The Renal Unit (#15) is a single storey concrete building constructed on a concrete slab with a pitched tiled roof. Internally, the walls and ceilings are lined with flat cement product, whilst floors are lined with vinyl sheeting. The south eastern end of the building adjoins onto a hallway which leads to other portions of the hospital. This hallway is considered outside the scope of this hazardous materials survey.																					
No Asbestos Detected																									
30-Oct-18		DC/KW	15	GF	External	Flat cement product	Eaves	South western aspect	Lining	Sealed		GH-KW-035	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	10	m2	-			
30-Oct-18		DC/KW	15	GF	External	Flat cement product	Eaves	North western and north eastern aspects	Lining	Sealed	As above	Ref GH-KW-035	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	20	m2	-			
30-Oct-18		DC/KW	15	GF	External	Sealant / Adhesives	Mastic	Between south western wall panels	Sealant	Sealed		GH-KW-036	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	20	m2	-			
Synthetic Mineral Fibres																									
30-Oct-18		DC/KW	15	GF	External	Thermal insulation	Water heater	South western wall	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Good	Low	Very high	Removal	Not required	1	Item	-			
30-Oct-18		DC/KW	15	GF	External	Thermal insulation	Pipe insulation	Between building 15 and 18 (enters the eaves of building 15)	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Good	Low	Very high	Removal	Not required	NQ	Lm	Unable to quantify full length due to pipe entering the eaves of building 15 and 18			
30-Oct-18		DC/KW	15	GF	Internal	Flat fibreboard	Loose ceiling tiles	North western plant room	Debris	Sealed		GH-KW-037	SMF detected	Non-friable	Poor	Medium	Very high	Removal	Not required	1.5	m2	-			
30-Oct-18		DC/KW	15	GF	Internal	Flat fibreboard	Ceiling tiles	Throughout main interior	Lining	Sealed		Ref GH-KW-037	SMF detected	Non-friable	Good	Low	Very high	Removal	Not required	300	m2	-			
30-Oct-18		DC/KW	15	GF	Internal	Thermal insulation	Ceiling cavity	Flexi duct work	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Good	Low	Very high	Removal	Not required	NQ	m2	Unable to observe all ductwork within the ceiling space - live services and objects obstructing access to some areas			
30-Oct-18		DC/KW	15	GF	Internal	Thermal insulation	Ceiling cavity	Roof insulation	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Good	Low	Very high	Removal	Not required	300	m2	-			
Ozone Depleting Substances																									
30-Oct-18		DC/KW	15	GF	External	Ozone depleting substance	Mitsubishi Air Conditioning Unit - R22 refridgerant	South western wall	Refridgerant	Sealed		Visual Observation	Presumed ODS until proven otherwise	Non-friable	Good	Low	Very high	Removal	Not required	1	Item	-			
No Access Areas																									
Two rooms within south eastern area (locked require PIN) Wall cavities - north eastern wall (access hatched screwed on)																									

Asbestos Materials Register

Site Location: RMO Accommodation (#9), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 29/10/2018

Consultant			Location / Description										Risk Assessment									Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The RMO Accomodation building comprises a one storey brick structure constructed on piers with a pitched tiled roof, wooden eaves and both metal and wooden framed windows. Internally, the structure has vinyl floor sheeting and wooden flooring and gyprock and flat cement product walls and ceilings.																						
Asbestos Material Detected																									
29-Oct-18		DC/KW	9	GF	External	Flat cement product	Infill panel	Northern, eastern and southern aspects	Lining	Sealed		GH-KW-019	Chrysotile Detected	Non-friable	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	15	m2	-			
29-Oct-18		DC/KW	9	GF	External	Flat cement product	Ground - adjacent to wall	Southern aspect	Debris	Unsealed		GH-KW-017	Chrysotile Detected	Non-friable	Poor	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	1 fragment removed as part of GH-KW-017			
29-Oct-18		DC/KW	9	GF	Internal	Resin-based materials	Electrical box	Southern aspect of enclosed porch	Electrical Backing Board	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Fair	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	-			
29-Oct-18		DC/KW	9	GF	Internal	Flat cement product	Ceiling	Southern aspect of enclosed porch	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	5	m2	Not sampled due to height restrictions			
29-Oct-18		DC/KW	9	GF	Internal	Flat cement product	Kitchen and Laundry	Walls - upper panels	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	10	m2	Not sampled due to building being occupied by nightshift workers			
29-Oct-18		DC/KW	9	GF	Internal	Flat cement product	Kitchen and Laundry	Ceiling	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	50	m2	Not sampled due to building being occupied by nightshift workers			
29-Oct-18		DC/KW	9	GF	Internal	Flat cement product	Loungeroom	Fire place infill panel	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	2	m2	Not sampled due to building being occupied by nightshift workers			
29-Oct-18		DC/KW	9	GF	Internal	Floor tiles	Kitchen and Laundry	Floor	Lining	Sealed		GH-KW-018	Chrysotile Detected	Non-friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	50	m2				
No Asbestos Detected																									
29-Oct-18		DC/KW	9	GF	External	Sealant / Adhesives	Wooden window frames - all aspects	Window Putty	Sealant	Sealed		Ref GH-KW-016	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	12	m2	~1 m^2 per window			
29-Oct-18		DC/KW	9	GF	External	Sealant / Adhesives	Wooden window frames - western aspect	Window Putty	Sealant	Sealed		GH-KW-016	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	<1	m2	-			
Synthetic Mineral Fibres																									
29-Oct-18		DC/KW	9	GF	External	Thermal insulation	Everhot hot water system	Northern aspect	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-friable	Good	Low	Very high	Removal	Not required	1	Item	-			
>0.1% Lead Paint																									
29-Oct-18		DC/KW	9	GF	External	Paint	Timber framed windows (white paint)	Western aspect	Sealant	Sealed		GH-KW-015	11% w/w lead content detected	N/A	Fair	Medium	Very high	Removal	Not required	1	m2				
29-Oct-18		DC/KW	9	GF	External	Paint	All other external features (white paint)	All aspects	Sealant	Sealed		Ref GH-KW-015	11% w/w lead content detected	N/A	Fair	Medium	Very high	Removal	Not required	40	m2	Includes eaves and infill panels			
PCB Capacitors																									

Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
29-Oct-18		DC/KW	9	GF	External	Capacitors	Dual tube light fitting	Northern aspect	Light fitting	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Fair	low	Very high	Removal	Not required	2	Item	Not sampled due to live electricity			

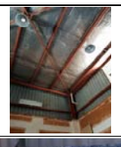
No Access Areas

Northern aspect of subfloor (access hatch too small to enter)

Asbestos Materials Register

Site Location: Stores (#12), Griffith Base Hospital, 1 Noorebar Avenue, Griffith, NSW

Inspection Date: 29/10/2018

Consultant			Location / Description										Risk Assessment								Remediation Actions		
Inspection date	Reinspection Date	Consultant and Surveyor Reference	Building Ref	Floor	Room or Space	Material description	Primary location	Secondary location	Application	Surface treatment	Photograph reference	Sample identification	Laboratory results	Friability	Material condition	Likelihood of disturbance	Risk	Control method	Labelling	Estimated quantity	Units	Comments	Date Actioned	Remediation Comments	Hygienist Comments
Building Description			The Stores (#12) is a single storey structure constructed on a concrete slab comprising a main tin shed and adjoining brick structure to the west. Internally, the walls are lined with tin and bricks. The floors are lined with concrete and the ceilings are lined with SMF insulation and sarking.																					
Asbestos Material Detected																									
29-Oct-18		DC/KW	12	GF	Internal	Resin-based materials	Electrical Box	Eastern wall	Electrical Backing Board	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-Friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	-			
29-Oct-18		DC/KW	12	GF	Internal	Moulded cement product	Internal gutter	Southern aspect	Lining	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Non-Friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	5	m2	Unable to sample due to height restrictions			
29-Oct-18		DC/KW	12	GF	External	Asbestos boards – insulating board in cores & linings	Flammable Liquids Door	Western aspect	Insulation/Fire Door	Sealed		Visual Observation	Presumed to contain asbestos until proven otherwise	Friable	Good	Low	Very high	Removal	Labels required (not affixed or not sufficient)	2.5	m2	-			
29-Oct-18		DC/KW	12	GF	Internal	Flat cement product	Southern storeroom	FCS fragment atop storeroom	Debris	Unsealed		GH-KW-023	Chrysotile Detected	Non-Friable	Poor	Medium	Very high	Removal	Labels required (not affixed or not sufficient)	<1	m2	Multiple fragments present, one removed as part of GH-KW-023			
No Asbestos Detected																									
29-Oct-18		DC/KW	12	GF	Internal	Sealant / Adhesives	North western storage room	Floor	Sealant	Sealed		GH-KW-020	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	10	Lm	-			
29-Oct-18		DC/KW	12	GF	External	Sealant / Adhesives	Southern storeroom	Window putty	Sealant	Sealed		GH-KW-024	No Asbestos Fibres Detected	N/A	N/A	N/A	N/A	N/A	N/A	1	Lm	-			
Synthetic Mineral Fibres																									
29-Oct-18		DC/KW	12	GF	Internal	Thermal insulation	Ceiling	-	Insulation	Sealed		Visual Observation	Presumed SMF until proven otherwise	Non-Friable	Good	Low	Very high	Removal	Not required	100	m2	-			
29-Oct-18		DC/KW	12	GF	External	Thermal insulation	Southern storeroom	Pipe section	Insulation	Unsealed		GH-KW-022	SMF detected	Friable	Fair	Medium	Very high	Removal	Not required	1	m2	-			
>0.1% Lead Paint																									
29-Oct-18		DC/KW	12	GF	External	Sealant / Adhesives	Brick wall	Southern aspect	Sealant	Sealed		GH-KW-021	0.13% w/w lead content detected	N/A	Poor	Low	Very high	Removal	Not required	20	m2	-			
PCB Capacitors																									
29-Oct-18		DC/KW	12	GF	Internal	Capacitors	Light fittings	Eastern, southern and western aspects of the larger tin structure, and nothern aspect of the adjoining brick structure	Light Fittings	Sealed		Visual Observation	Presumed PCB until proven otherwise	N/A	Good	Low	Very high	Removal	Not required	13	Item	-			
No Access Areas																									
Contaminated waste store room (health risk)																									

Appendix B – Laboratory reports

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
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www.envirolab.com.au

CERTIFICATE OF ANALYSIS 204748

Client Details

Client	GHD Pty Ltd (Newcastle)
Attention	David Coelli, Kasey Williams
Address	Level 3, GHD Tower 24 Honeysuckle Dr, Newcastle, NSW, 2300

Sample Details

Your Reference	**2127721**
Number of Samples	60 Material, 10 Paint
Date samples received	02/11/2018
Date completed instructions received	02/11/2018

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	09/11/2018
Date of Issue	07/11/2018

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Lucy Zhu
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Long Pham, Team Leader, Metals
Lucy Zhu, Asbsestos Analyst

Authorised By

Jacinta Hurst, Laboratory Manager

Asbestos ID - materials						
Our Reference		204748-1	204748-2	204748-3	204748-4	204748-6
Your Reference	UNITS	GH-KW-001	GH-KW-002	GH-KW-003	GH-KW-004	GH-KW-006
Date Sampled		29/10/2018	29/10/2018	29/10/2018	29/10/2018	29/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	60x40x5mm	65x48x2mm	35x10x3mm	20x13x5mm	30x15x5mm
Sample Description	-	Grey fibre cement material	Beige vinyl tile	Beige fibre cement material	A)Black bitumen B)White fibre on surface	Black bituminous material
Asbestos ID in materials	-	Chrysotile asbestos detected	No asbestos detected	No asbestos detected Organic fibres detected	A)No asbestos detected Organic fibres detected B)Chrysotile asbestos detected	No asbestos detected Organic fibres detected

Asbestos ID - materials						
Our Reference		204748-7	204748-10	204748-11	204748-12	204748-13
Your Reference	UNITS	GH-KW-007	GH-KW-010	GH-KW-011	GH-KW-012	GH-KW-013
Date Sampled		29/10/2018	29/10/2018	29/10/2018	29/10/2018	29/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	7x6x1mm	15x15x1mm	20x13x2mm	50x18x5mm	15x10x3mm
Sample Description	-	Grey mastic	Grey fibre cement material	Beige fibre cement material	Beige fibre cement material	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID - materials						
Our Reference		204748-14	204748-16	204748-17	204748-18	204748-19
Your Reference	UNITS	GH-KW-014	GH-KW-016	GH-KW-017	GH-KW-018	GH-KW-019
Date Sampled		29/10/2018	29/10/2018	29/10/2018	29/10/2018	29/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	15x15x2mm	70x15x10mm	125x60x5mm	20x20x3mm	10x10x1mm
Sample Description	-	Brown fibrous gasket	Beige hardened mastic	Grey fibre cement material	Beige vinyl tile	Peach fibre cement material
Asbestos ID in materials	-	No asbestos detected Organic fibres detected Synthetic mineral fibres detected	No asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID - materials						
Our Reference		204748-20	204748-22	204748-23	204748-24	204748-26
Your Reference	UNITS	GH-KW-020	GH-KW-022	GH-KW-023	GH-KW-024	GH-KW-026
Date Sampled		29/10/2018	29/10/2018	29/10/2018	29/10/2018	29/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	20x15x3mm	30x25x2mm	40x30x5mm	45x10x5mm	45x17x5mm
Sample Description	-	Black bituminous material	Tan vitreous fibrous insulation & debris	Beige fibre cement material	Beige hardened mastic	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected Organic fibres detected	No asbestos detected Synthetic mineral fibres detected	Chrysotile asbestos detected	No asbestos detected	No asbestos detected Organic fibres detected

Asbestos ID - materials						
Our Reference		204748-27	204748-28	204748-29	204748-30	204748-31
Your Reference	UNITS	GH-KW-027	GH-KW-028	GH-KW-029	GH-KW-030	GH-KW-031
Date Sampled		29/10/2018	29/10/2018	29/10/2018	29/10/2018	29/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	20x15x3mm	15x10x2mm	50x30x5mm	15x10x2mm	10x8x5mm
Sample Description	-	Beige fibre cement material	Beige fibre cement material	Grey fibre cement material	Pink/White coating material	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected	No asbestos detected	Chrysotile asbestos detected

Asbestos ID - materials						
Our Reference		204748-32	204748-33	204748-35	204748-36	204748-37
Your Reference	UNITS	GH-KW-032	GH-KW-033	GH-KW-035	GH-KW-036	GH-KW-037
Date Sampled		29/10/2018	29/10/2018	30/10/2018	30/10/2018	30/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	50x45x5mm	75x55x5mm	18x10x5mm	15x15x5mm	30x30x5mm
Sample Description	-	Beige fibre cement material	Grey fibre cement material	Beige fibre cement material	Brown rubbery mastic	Beige vitreous fibrous insulation
Asbestos ID in materials	-	No asbestos detected Organic fibres detected	Chrysotile asbestos detected	No asbestos detected Organic fibres detected	No asbestos detected	No asbestos detected Synthetic mineral fibres detected

Asbestos ID - materials						
Our Reference		204748-40	204748-41	204748-42	204748-43	204748-44
Your Reference	UNITS	GH-KW-040	GH-KW-041	GH-KW-042	GH-KW-043	GH-KW-044
Date Sampled		30/10/2018	30/10/2018	30/10/2018	30/10/2018	30/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	25x10x5mm	20x15x4mm	50x13x5mm	23x15x5mm	25x15x3mm
Sample Description	-	Beige fibre cement material	Beige fibre cement material	Beige hardened mastic	Peach fibre cement material	Peach fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected	Chrysotile asbestos detected Amosite asbestos detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID - materials						
Our Reference		204748-45	204748-46	204748-47	204748-48	204748-49
Your Reference	UNITS	GH-KW-045	GH-KW-046	GH-KW-047	GH-KW-048	GH-KW-049
Date Sampled		30/10/2018	30/10/2018	30/10/2018	30/10/2018	30/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	90x40x5mm	50x30x2mm	15x10x2mm	15x8x1mm	35x30x3mm
Sample Description	-	Grey fibre cement material	Grey vinyl tile	Beige fibre cement material	Grey fibre cement material	Beige fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected	No asbestos detected Organic fibres detected

Asbestos ID - materials						
Our Reference		204748-50	204748-51	204748-52	204748-53	204748-54
Your Reference	UNITS	GH-KW-050	GH-KW-051	GH-KW-052	GH-KW-053	GH-KW-054
Date Sampled		30/10/2018	30/10/2018	30/10/2018	30/10/2018	30/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	40x30x5mm	20x20x2mm	35x23x3mm	40x20x3mm	50x3x2mm
Sample Description	-	Beige fibre cement material	Blue vinyl tile & adhesive	Beige fibre cement material	Beige fibre cement material	Brown fibrous rope
Asbestos ID in materials	-	No asbestos detected Organic fibres detected	No asbestos detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected

Asbestos ID - materials						
Our Reference		204748-55	204748-56	204748-58	204748-59	204748-60
Your Reference	UNITS	GH-KW-055	GH-KW-056	GH-KW-058	GH-KW-059	GH-KW-060
Date Sampled		30/10/2018	30/10/2018	30/10/2018	30/10/2018	30/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	30x20x3mm	25x12x3mm	110x50x5mm	20x18x5mm	10x10x1mm
Sample Description	-	Beige fibre cement material	Peach fibre cement material	Grey fibre cement material	Beige fibre cement material & adhesive	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected

Asbestos ID - materials						
Our Reference		204748-61	204748-62	204748-63	204748-64	204748-65
Your Reference	UNITS	GH-KW-061	GH-KW-062	GH-KW-063	GH-KW-064	GH-KW-065
Date Sampled		30/10/2018	30/10/2018	30/10/2018	30/10/2018	30/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	60x50x3mm	115x30x5mm	20x13x5mm	15x10x2mm	12x10x1mm
Sample Description	-	A)Grey vinyl tile B)Black adhesive	Beige fibre cement material	Beige fibre cement material	Beige fibre cement material	Beige fibre cement material
Asbestos ID in materials	-	A)Chrysotile asbestos detected B)No asbestos detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

Asbestos ID - materials						
Our Reference		204748-66	204748-67	204748-68	204748-69	204748-70
Your Reference	UNITS	GH-KW-066	GH-KW-067	GH-KW-068	GH-KW-069	GH-KW-070
Date Sampled		30/10/2018	30/10/2018	30/10/2018	30/10/2018	30/10/2018
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Mass / Dimension of Sample	-	40x38x5mm	30x30x5mm	15x10x2mm	20x10x3mm	20x20x1mm
Sample Description	-	Beige fibre cement material	Beige fibre cement material	Beige fibre cement material	Beige fibre cement material	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected Organic fibres detected	Chrysotile asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected

Lead in Paint						
Our Reference		204748-5	204748-8	204748-9	204748-15	204748-21
Your Reference	UNITS	GH-KW-005	GH-KW-008	GH-KW-009	GH-KW-015	GH-KW-021
Date Sampled		29/10/2018	29/10/2018	29/10/2018	29/10/2018	29/10/2018
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	05/11/2018	05/11/2018	05/11/2018	05/11/2018	05/11/2018
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Lead in paint	%w/w	0.13	0.23	0.14	11	0.13

Lead in Paint						
Our Reference		204748-25	204748-34	204748-38	204748-39	204748-57
Your Reference	UNITS	GH-KW-025	GH-KW-034	GH-KW-038	GH-KW-039	GH-KW-057
Date Sampled		29/10/2018	29/10/2018	30/10/2018	30/10/2018	30/10/2018
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	05/11/2018	05/11/2018	05/11/2018	05/11/2018	05/11/2018
Date analysed	-	06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Lead in paint	%w/w	6.1	2.6	8.6	0.58	0.01

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
Metals-004	Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS.

QUALITY CONTROL: Lead in Paint						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			05/11/2018	9	05/11/2018	05/11/2018		05/11/2018	[NT]
Date analysed	-			06/11/2018	9	06/11/2018	06/11/2018		06/11/2018	[NT]
Lead in paint	%w/w	0.005	Metals-004	<0.005	9	0.14	0.14	0	95	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Report Comments

Samples 204748-4 & 61; The supplied samples were sub-sampled (A & B) in order to accurately report the analytical results representative of the entire sample, as per AS4964-2004.

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client: GHD	**Client Project Name and Numb:** Griffith Base Hospital Hazmat Surveys	**Envirolab Services** 12 Ashley St, Chatswood, NSW, 2067
Project Mgr: David Coelli		
Sampler: Kasey Williams	**PO No.:** 2127721	**Phone:** 02 9910 6200
Address: 24 Honeysuckle Drive, Newcastle, NSW, 2300	**Envirolab Services Quote No. :**	**Fax:** 02 9910 6201
	Date results required:	**E-mail:** ahie@envirolabservices.com.au
Email: kasey.williams@ghd.com David.Coelli@ghd.com	**Or choose:** standard / 1 day / 2 day / 3 day	
Phone: 402179170 **Fax:** -	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	**Contact:** Aileen Hie

Sample information				Tests Required														Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Bulk Asbestos	Lead Paint %w/w													Provide as much information about the sample as you can
1	GH-KW-001	29/10/2018	Building Materials	X														
2	GH-KW-002	29/10/2018	Building Materials	X														
3	GH-KW-003	29/10/2018	Building Materials	X														
4	GH-KW-004	29/10/2018	Building Materials	X														
5	GH-KW-005	29/10/2018	Building Materials		X													
6	GH-KW-006	29/10/2018	Building Materials	X														
7	GH-KW-007	29/10/2018	Building Materials	X														
8	GH-KW-008	29/10/2018	Building Materials		X													
9	GH-KW-009	29/10/2018	Building Materials		X													
10	GH-KW-010	29/10/2018	Building Materials	X														
11	GH-KW-011	29/10/2018	Building Materials	X														
12	GH-KW-012	29/10/2018	Building Materials	X														
13	GH-KW-013	29/10/2018	Building Materials	X														
14	GH-KW-014	29/10/2018	Building Materials	X														
15	GH-KW-015	29/10/2018	Building Materials		X													

ENVIROLAB
Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 204748

Date Received: 2/11/2018
Time Received: 1730
Received By: AL
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

Relinquished by (company): GHD	**Received by (company):** Envirolab Services	**Samples Received: Cool or Ambient (circle one)**
Print Name: Kasey Williams	**Print Name:**	**Temperature Recieved at:** (if applicable)
Date & Time: 1/11/2018 11:00 am	**Date & Time:** 2/11/2018 1730	**Transported by: Hand delivered / courier**
Signature:	**Signature:** AL	**Page No:**

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client: GHD	**Client Project Name and Numb:** Griffith Base Hospital Hazmat Surveys	**Envirolab Services** 12 Ashley St, Chatswood, NSW, 2067
Project Mgr: David Coelli		
Sampler: Kasey Williams	**PO No.:** 2127721	
Address: 24 Honeysuckle Drive, Newcastle, NSW, 2300	**Envirolab Services Quote No. :**	**Phone:** 02 9910 6200
	Date results required:	**Fax:** 02 9910 6201
Email: kasey.williams@ghd.com David.Coelli@ghd.com	**Or choose:** standard / 1 day / 2 day / 3 day	**E-mail:** ahie@envirolabservices.com.au
Phone: 402179170 **Fax:** -	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	**Contact:** Aileen Hie

Sample information				Tests Required														Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Bulk Asbestos	Lead Paint %w/w													Provide as much information about the sample as you can
16	GH-KW-016	29/10/2018	Building Materials	X														
17	GH-KW-017	29/10/2018	Building Materials	X														
18	GH-KW-018	29/10/2018	Building Materials	X														
19	GH-KW-019	29/10/2018	Building Materials	X														
20	GH-KW-020	29/10/2018	Building Materials	X														
21	GH-KW-021	29/10/2018	Building Materials		X													
22	GH-KW-022	29/10/2018	Building Materials	X														
23	GH-KW-023	29/10/2018	Building Materials	X														
24	GH-KW-024	29/10/2018	Building Materials	X														
25	GH-KW-025	29/10/2018	Building Materials		X													
26	GH-KW-026	29/10/2018	Building Materials	X														
27	GH-KW-027	29/10/2018	Building Materials	X														
28	GH-KW-028	29/10/2018	Building Materials	X														
29	GH-KW-029	29/10/2018	Building Materials	X														
30	GH-KW-030	29/10/2018	Building Materials	X														

Relinquished by (company): GHD	**Received by (company):** ES	**Samples Received:** Cool or Ambient (circle one)
Print Name: Kasey Williams	**Print Name:** Ray	**Temperature Recieved at:** (if applicable)
Date & Time: 1/11/2018 11:00 am	**Date & Time:** 2/11/2018 17:30	**Transported by:** Hand delivered / courier
Signature:	**Signature:**	**Page No:**

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CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client: GHD	**Client Project Name and Numb:** Griffith Base Hospital Hazmat Surveys	**Envirolab Services** 12 Ashley St, Chatswood, NSW, 2067
Project Mgr: David Coelli		
Sampler: Kasey Williams	**PO No.:** 2127721	Phone: 02 9910 6200
Address: 24 Honeysuckle Drive, Newcastle, NSW, 2300	**Envirolab Services Quote No. :**	Fax: 02 9910 6201
	Date results required:	E-mail: ahie@envirolabservices.com.au
Email: kasey.williams@ghd.com David.Coelli@ghd.com	**Or choose:** standard / 1 day / 2 day / 3 day	
Phone: 402179170 **Fax:** -	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	**Contact:** Aileen Hie

Sample information				Tests Required														Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Bulk Asbestos	Lead Paint %w/w													Provide as much information about the sample as you can
31	GH-KW-031	29/10/2018	Building Materials	X														
32	GH-KW-032	29/10/2018	Building Materials	X														
33	GH-KW-033	29/10/2018	Building Materials	X														
34	GH-KW-034	29/10/2018	Building Materials		X													
35	GH-KW-035	30/10/2018	Building Materials	X														
36	GH-KW-036	30/10/2018	Building Materials	X														
37	GH-KW-037	30/10/2018	Building Materials	X														
38	GH-KW-038	30/10/2018	Building Materials		X													
39	GH-KW-039	30/10/2018	Building Materials		X													
40	GH-KW-040	30/10/2018	Building Materials	X														
41	GH-KW-041	30/10/2018	Building Materials	X														
42	GH-KW-042	30/10/2018	Building Materials	X														
43	GH-KW-043	30/10/2018	Building Materials	X														
44	GH-KW-044	30/10/2018	Building Materials	X														
45	GH-KW-045	30/10/2018	Building Materials	X														

Relinquished by (company): GHD	**Received by (company):** ES	**Samples Received:** Cool or Ambient (circle one)
Print Name: Kasey Williams	**Print Name:** PRay	**Temperature Recieved at:** (if applicable)
Date & Time: 1/11/2018 11:00 am	**Date & Time:** 2/11/2018 17:30	**Transported by:** Hand delivered / courier
Signature:	**Signature:** PR	**Page No:**

204748

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client: GHD	**Client Project Name and Numb:** Griffith Base Hospital Hazmat Surveys	**Envirolab Services** 12 Ashley St, Chatswood, NSW, 2067
Project Mgr: David Coelli		
Sampler: Kasey Williams	**PO No.:** 2127721	**Phone:** 02 9910 6200
Address: 24 Honeysuckle Drive, Newcastle, NSW, 2300	**Envirolab Services Quote No. :**	**Fax:** 02 9910 6201
Email: kasey.williams@ghd.com David.Coelli@ghd.com	**Date results required:**	**E-mail:** ahie@envirolabservices.com.au
Phone: 402179170 **Fax:** -	**Or choose:** standard / 1 day / 2 day / 3 day *Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	**Contact:** Aileen Hie

Sample information				Tests Required														Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Bulk Asbestos	Lead Paint %w/w													Provide as much information about the sample as you can
46	GH-KW-046	30/10/2018	Building Materials	X														
47	GH-KW-047	30/10/2018	Building Materials	X														
48	GH-KW-048	30/10/2018	Building Materials	X														
49	GH-KW-049	30/10/2018	Building Materials	X														
50	GH-KW-050	30/10/2018	Building Materials	X														
51	GH-KW-051	30/10/2018	Building Materials	X														
52	GH-KW-052	30/10/2018	Building Materials	X														
53	GH-KW-053	30/10/2018	Building Materials	X														
54	GH-KW-054	30/10/2018	Building Materials	X														
55	GH-KW-055	30/10/2018	Building Materials	X														
56	GH-KW-056	30/10/2018	Building Materials	X														
57	GH-KW-057	30/10/2018	Building Materials		X													
58	GH-KW-058	30/10/2018	Building Materials	X														
59	GH-KW-059	30/10/2018	Building Materials	X														
60	GH-KW-060	30/10/2018	Building Materials	X														

Relinquished by (company): GHD	**Received by (company):** Ev	**Samples Received:** Cool or Ambient (circle one)
Print Name: Kasey Williams	**Print Name:** Ra	**Temperature Recieved at:** (if applicable)
Date & Time: 1/11/2018 11:00am	**Date & Time:** 7/11/2018 1730	**Transported by:** Hand delivered / courier
Signature:	**Signature:** R	**Page No:**

204748

CHAIN OF CUSTODY - Client

ENVIROLAB SERVICES

Client: GHD	**Client Project Name and Numb:** Griffith Base Hospital Hazmat Surveys	**Envirolab Services** 12 Ashley St, Chatswood, NSW, 2067
Project Mgr: David Coelli		
Sampler: Kasey Williams	**PO No.:** 2127721	
Address: 24 Honeysuckle Drive, Newcastle, NSW, 2300	**Envirolab Services Quote No. :**	**Phone:** 02 9910 6200
	Date results required:	**Fax:** 02 9910 6201
Email: kasey.williams@ghd.com David.Coelli@ghd.com	**Or choose:** standard / 1 day / 2 day / 3 day	**E-mail:** ahie@envirolabservices.com.au
Phone: 402179170 **Fax:** -	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	**Contact:** Aileen Hie

Sample information				Tests Required														Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Bulk Asbestos	Lead Paint %w/w													Provide as much information about the sample as you can
61	GH-KW-061	30/10/2018	Building Materials	X														
62	GH-KW-062	30/10/2018	Building Materials	X														
63	GH-KW-063	30/10/2018	Building Materials	X														
64	GH-KW-064	30/10/2018	Building Materials	X														
65	GH-KW-065	30/10/2018	Building Materials	X														
66	GH-KW-066	30/10/2018	Building Materials	X														
67	GH-KW-067	30/10/2018	Building Materials	X														
68	GH-KW-068	30/10/2018	Building Materials	X														
69	GH-KW-069	30/10/2018	Building Materials	X														
70	GH-KW-070	30/10/2018	Building Materials	X														

Relinquished by (company): GHD	**Received by (company):** EN	**Samples Received:** Cool or Ambient (circle one)
Print Name: Kasey Williams	**Print Name:** RAy	**Temperature Recieved at:** (if applicable)
Date & Time: 1/11/2018 11:00 am	**Date & Time:** 2/11/2018 7:30	**Transported by:** Hand delivered / courier
Signature:	**Signature:**	**Page No:**

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Sampler: Kasey Williams	**PO No.:** 2127721	**Phone:** 02 9910 6200
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Phone: 402179170 **Fax:** -	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	**Contact:** Aileen Hie

Sample information				Tests Required														Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Bulk Asbestos	Lead Paint %w/w													Provide as much information about the sample as you can
	GH-KW-001	29/10/2018	Building Materials	X														
	GH-KW-002	29/10/2018	Building Materials	X														
	GH-KW-003	29/10/2018	Building Materials	X														
	GH-KW-004	29/10/2018	Building Materials	X														
	GH-KW-005	29/10/2018	Building Materials		X													
	GH-KW-006	29/10/2018	Building Materials	X														
	GH-KW-007	29/10/2018	Building Materials	X														
	GH-KW-008	29/10/2018	Building Materials		X													
	GH-KW-009	29/10/2018	Building Materials		X													
	GH-KW-010	29/10/2018	Building Materials	X														
	GH-KW-011	29/10/2018	Building Materials	X														
	GH-KW-012	29/10/2018	Building Materials	X														
	GH-KW-013	29/10/2018	Building Materials	X														
	GH-KW-014	29/10/2018	Building Materials	X														
	GH-KW-015	29/10/2018	Building Materials		X													

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Email: kasey.williams@ghd.com David.Coelli@ghd.com	**Date results required:** **Or choose:** standard / 1 day / 2 day / 3 day *Note: Inform lab in advance if urgent turnaround is required - surcharge applies*	**E-mail:** ahie@envirolabservices.com.au **Contact:** Aileen Hie
Phone: 402179170 **Fax:** -		

Sample information				Tests Required														Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Bulk Asbestos	Lead Paint %w/w													Provide as much information about the sample as you can
	GH-KW-016	29/10/2018	Building Materials	X														
	GH-KW-017	29/10/2018	Building Materials	X														
	GH-KW-018	29/10/2018	Building Materials	X														
	GH-KW-019	29/10/2018	Building Materials	X														
	GH-KW-020	29/10/2018	Building Materials	X														
	GH-KW-021	29/10/2018	Building Materials		X													
	GH-KW-022	29/10/2018	Building Materials	X														
	GH-KW-023	29/10/2018	Building Materials	X														
	GH-KW-024	29/10/2018	Building Materials	X														
	GH-KW-025	29/10/2018	Building Materials		X													
	GH-KW-026	29/10/2018	Building Materials	X														
	GH-KW-027	29/10/2018	Building Materials	X														
	GH-KW-028	29/10/2018	Building Materials	X														
	GH-KW-029	29/10/2018	Building Materials	X														
	GH-KW-030	29/10/2018	Building Materials	X														

Relinquished by (company): GHD	**Received by (company):**	**Samples Received:** Cool or Ambient (circle one)
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Phone: 402179170 **Fax:** -	*Note: Inform lab in advance if urgent turnaround is required - surcharge applies*

Envirolab Services
12 Ashley St, Chatswood, NSW, 2067

Phone: 02 9910 6200
Fax: 02 9910 6201
E-mail: ahie@envirolabservices.com.au

Contact: Aileen Hie

Sample information				Tests Required														Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Bulk Asbestos	Lead Paint %w/w													Provide as much information about the sample as you can
	GH-KW-031	29/10/2018	Building Materials	X														
	GH-KW-032	29/10/2018	Building Materials	X														
	GH-KW-033	29/10/2018	Building Materials	X														
	GH-KW-034	29/10/2018	Building Materials		X													
	GH-KW-035	30/10/2018	Building Materials	X														
	GH-KW-036	30/10/2018	Building Materials	X														
	GH-KW-037	30/10/2018	Building Materials	X														
	GH-KW-038	30/10/2018	Building Materials		X													
	GH-KW-039	30/10/2018	Building Materials		X													
	GH-KW-040	30/10/2018	Building Materials	X														
	GH-KW-041	30/10/2018	Building Materials	X														
	GH-KW-042	30/10/2018	Building Materials	X														
	GH-KW-043	30/10/2018	Building Materials	X														
	GH-KW-044	30/10/2018	Building Materials	X														
	GH-KW-045	30/10/2018	Building Materials	X														

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Contact: Aileen Hie

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	GH-KW-046	30/10/2018	Building Materials	X														
	GH-KW-047	30/10/2018	Building Materials	X														
	GH-KW-048	30/10/2018	Building Materials	X														
	GH-KW-049	30/10/2018	Building Materials	X														
	GH-KW-050	30/10/2018	Building Materials	X														
	GH-KW-051	30/10/2018	Building Materials	X														
	GH-KW-052	30/10/2018	Building Materials	X														
	GH-KW-053	30/10/2018	Building Materials	X														
	GH-KW-054	30/10/2018	Building Materials	X														
	GH-KW-055	30/10/2018	Building Materials	X														
	GH-KW-056	30/10/2018	Building Materials	X														
	GH-KW-057	30/10/2018	Building Materials		X													
	GH-KW-058	30/10/2018	Building Materials	X														
	GH-KW-059	30/10/2018	Building Materials	X														
	GH-KW-060	30/10/2018	Building Materials	X														

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	GH-KW-062	30/10/2018	Building Materials	X														
	GH-KW-063	30/10/2018	Building Materials	X														
	GH-KW-064	30/10/2018	Building Materials	X														
	GH-KW-065	30/10/2018	Building Materials	X														
	GH-KW-066	30/10/2018	Building Materials	X														
	GH-KW-067	30/10/2018	Building Materials	X														
	GH-KW-068	30/10/2018	Building Materials	X														
	GH-KW-069	30/10/2018	Building Materials	X														
	GH-KW-070	30/10/2018	Building Materials	X														

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GHD

Level 3 GHD Tower 24 Honeysuckle Drive Newcastle NSW 2300
PO Box 5403 Hunter Region Mail Centre NSW 2310
T: (02) 4979 9999 F: (02) 4979 9988 E: ntlmail@ghd.com

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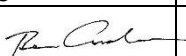
Document Status

Rev No.	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
0	K. Williams	D. Coelli		B Anderson		06/12/18

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coffey
A TETRA TECH COMPANY

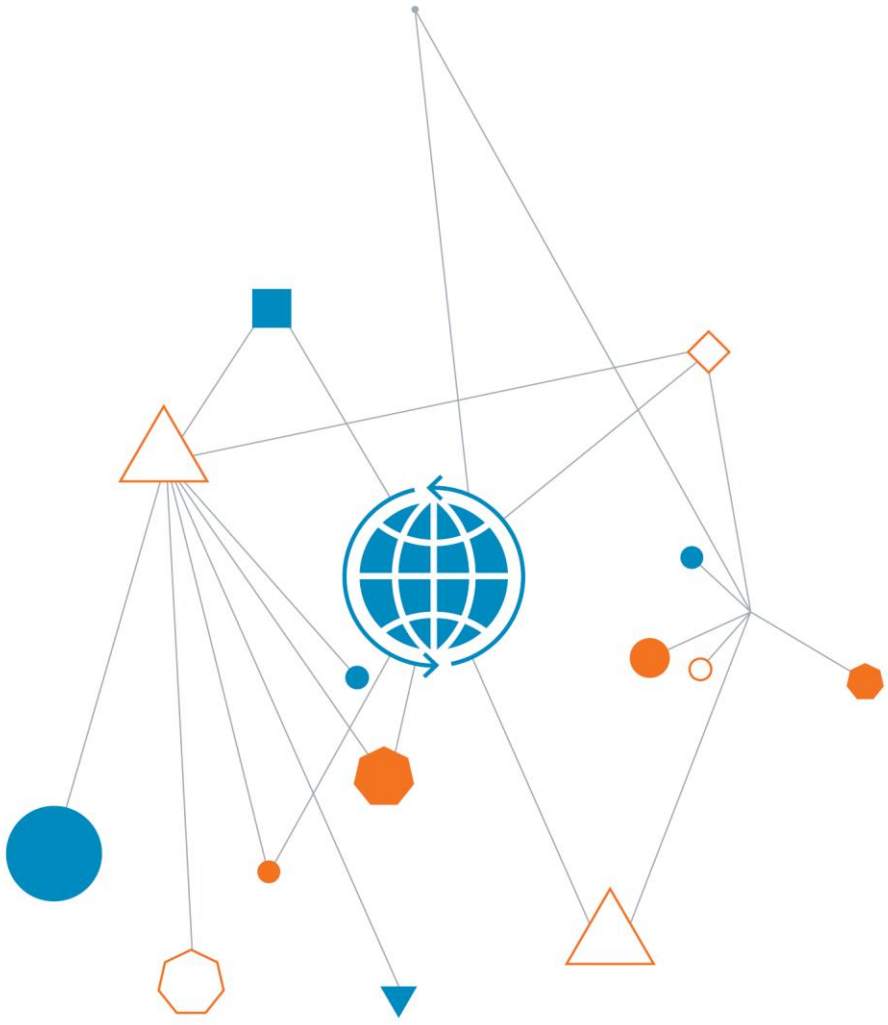
CBRE

Asbestos and Hazardous Materials Assessment

Griffith Base Hospital

15 September 2020

Please note: This report supersedes the Phase 1 report issued by Coffey on the 30 March 2020. This is to include the Phase 2 site works conducted in August 2020. Additional hazardous materials items have been added to the report and associated registers.



When you think with a global mind problems get smaller

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Asbestos and Hazardous Materials Assessment

Prepared for
CBRE

Prepared by
Coffey Services Australia Pty Ltd
Level 19, Tower B, 799 Pacific Highway
Chatswood NSW 2067 Australia
t: +61 2 9406 1000 f: +61 2 9415 1678
ABN: 55 139 460 521

9 September 2020

754-SYDEN273529

Quality information

Revision history

Revision	Description	Date	Originator	Reviewer	Approver
R01	Report	15/09/2020	Matt Hemingway	Aaron Holmes	Aaron Holmes

Distribution

Report Status	No. of copies	Format	Distributed to	Date
R01	1	PDF	Fintan O'Dwyer, CBRE	15/09/2020

Table of contents

Appendices

Executive Summary

Coffey Services Australia Pty Ltd (Coffey) was commissioned by CBRE to conduct an asbestos and hazardous materials (hazmat) assessment of nominated areas/buildings located at Griffith Base Hospital (the site). The following areas (only) were subject to a limited intrusive pre-demolition assessment:

- Building No.1, Main Service Building & Emergency Department;
- Building No.2, General Ward Block;
- Building No.6, Maternity Unit;
- Building No.16, Doctors Rooms;
- Building No.17, Specialist Clinics;
- Building No.19, Biomedical;
- Building No.20, Dietics;
- Building No.22, Medical Imaging;
- Building No.23, Quality;
- Building No.24, Paediatrics;
- Building No.25, TRACS;
- Building No.28, Office;
- Building No.29, Kiosk; and
- Building links connecting the above listed areas.

At the request of CBRE, the following buildings were subject to a visual assessment only;

- Building No.4, Nurse Education;
- Building No.5, Dentistry;
- Building No.26, Relatives Overnight Stay; and
- Building No.27, Staff Accommodation Units.

The purpose of the hazmat assessment was to assess and document the health risks posed by hazardous materials, including asbestos-containing materials (ACM), which may be disturbed by upcoming refurbishment works. This is in order to meet the requirements of the relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes.

State/Territory legislation and industry guidance requires that the registers be used by and made available to property owners, employers, workers, persons intending business at the premises and Health and Safety Representatives, as part of an overall hazardous materials management plan designed to control the risks of exposure to hazardous materials.

These building have been previously subjected to a visual asbestos/hazmat assessment only.

As the site was operational at the time of the survey, access to all areas occupied by patents and staff was deemed limited. Should any other material suspected to contain asbestos or hazmat be found at the site or are not included in this report, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.

Full details of the material assessments can be located within **Appendix A: Asbestos and Hazmat Register**.

The following significant key findings are noted:

Asbestos Containing Materials

Building No. 1, Main Service Building & Emergency Department

- Internal, throughout (including concealed), 'pebble' look beige floor covering – asbestos containing paper backed vinyl floor sheeting;
- Internal, room 1142, in service HRC fuses – suspected asbestos containing internal millboard membrane;
- Internal, room 1121, in service HRC fuses – suspected internal millboard membrane;
- Internal, room 1121, MDI units – asbestos containing mastic;
- Internal, throughout rooms 1101, 1102, 1104, ceiling lining – asbestos containing fibre cement sheet;
- Internal, room 1147, boxing to corner – asbestos containing fibre cement sheet;
- Internal, room 1147, ceiling lining – asbestos containing fibre cement sheet;
- Internal, room 1041 & office male bathroom, boxing to corner of room – asbestos containing fibre cement sheet;
- Internal, recovery store room, bulk head – asbestos containing fibre cement sheet;
- Internal, room 1092, ceiling lining – asbestos containing fibre cement sheet;
- Internal, room 1093, in service/spare HRC fuses – suspected internal millboard membrane;
- Internal, corridor 1080, adjacent lift, double fire doors (unlabelled) – suspected asbestos containing door core insulation;
- Internal, LG plantroom, red/brown gaskets throughout – asbestos containing gaskets;
- Internal, LG plantroom, exposed red gasket – asbestos containing gasket;
- Internal, LG plantroom, in-service HRC fuses to switchboard – suspected asbestos containing internal millboard membrane;
- Internal, LG plantroom, mechanical ductwork – suspected asbestos containing internal components;
- Internal, LG plantroom, HVAC ductwork join – asbestos containing mastic;
- Internal, rooftop plantroom, mechanical ductwork – suspected asbestos containing internal components;
- Internal, rooftop plantroom, HVAC ductwork join – asbestos containing mastic; and
- Internal/ external, sporadic windows throughout – asbestos containing window caulking.

Building No. 2, General Ward Block

- External, rooftop, gable verge linings – asbestos containing fibre cement sheet;
- External, rooftop, HVAC ductwork join – asbestos containing mastic;
- External, throughout, building joint to window frames – asbestos containing mastic;
- Internal, south west roofing, concealed ceiling lining immediate to roof tiles – asbestos containing fibre cement sheet;
- Internal, foyer adjacent room 2004, double fire doors (unlabelled) – suspected asbestos containing door core insulation;
- Internal, foyer adjacent room 2104, double fire doors (unlabelled) – suspected asbestos containing door core insulation;
- Internal, sub floor network, sporadic debris throughout – asbestos containing fibre cement sheet;
- Internal, sub floor network, red gasket to red pipework – asbestos containing gasket material;
- Internal, sub floor network (and suspected throughout), black building joint to brickwork – asbestos containing mastic;
- Internal, fire hose cupboards adjacent rooms 2005 & 2105, ceiling lining – asbestos containing fibre cement sheet;
- Internal, room 2105, ceiling lining – asbestos containing fibre cement sheet; and
- Internal/ external, sporadic throughout, windows – asbestos containing caulking.

Building No. 4, Nurse Education

- External, entry awning – suspected asbestos containing fibre cement sheet;
- External, perimeter eaves – suspected asbestos containing fibre cement sheet;
- External, switchboard, backing panel – suspected asbestos containing bituminous board; and
- External, switchboard, in-service HRC fuses – suspected asbestos containing internal millboard membrane.

Building No. 5, Dentistry

- External, entry awning – suspected asbestos containing fibre cement sheet; and
- External, perimeter eaves – suspected asbestos containing fibre cement sheet.

Building No. 6, Maternity Unit

- External, throughout, eaves – asbestos containing fibre cement sheet;
- External, entry awning panels – asbestos containing fibre cement sheet;
- Internal, throughout (concealed), 'pebble' look beige floor covering – asbestos containing paper backed vinyl floor sheeting;
- Internal, rooms 4013 and 4014, ceiling lining – asbestos containing fibre cement sheet; and
- Internal, room 4045, infill panel above and below windows – asbestos containing fibre cement sheet.

Building No. 16, Doctors Rooms

- External, south elevation, debris to ground – asbestos containing fibre cement sheet;
- External, north and east elevations, eaves – asbestos containing fibre cement sheet;
- External, room 1739, cladding panels – asbestos containing fibre cement sheet;
- Internal, sub floor, pipe lagging – suspected asbestos containing insulation material;
- Internal, room 1739, ceiling lining – asbestos containing fibre cement sheet;
- Internal, room 1739, wall lining – asbestos containing fibre cement sheet; and
- Internal, room 1740, ceiling lining – asbestos containing fibre cement sheet.

Building No. 17, Specialist Clinics

- External, sub floor, pipe lagging debris – asbestos containing insulation material;
- External, sub floor, packers – suspected asbestos containing fibre cement sheet; and
- Internal, throughout, concealed 'pebble' look beige floor covering – asbestos containing paper backed vinyl sheeting.

Building No. 19, Biomedical

- Internal, throughout (including concealed in room 1708), 'pebble' look beige floor covering – asbestos containing paper backed vinyl floor sheeting;
- Internal, room 1713, ceiling lining – asbestos containing fibre cement sheet;
- Internal, rooms 1701, 1702, 1703 & 1704, concealed ceiling lining – asbestos containing fibre cement sheet.

Building No. 20, Dietics

- Internal, room 6003 and adjoining corridor, beige floor covering – asbestos containing vinyl floor tiles;
- Internal, room 6003, grey floor covering – asbestos containing vinyl floor tiles; and
- Internal, room 6001, loading area wall lining – asbestos containing fibre cement sheet.

Building No. 22, Medical Imaging

- Internal, room 3025, MDI unit – asbestos containing mastic; and
- Internal, entry way, fire doors (double) – asbestos containing door core insulation.

Building No. 24, Paediatrics

- Internal, room 3039 HVAC system – suspected asbestos containing internal components.

Building No.26, Relatives Overnight Stay

- External, throughout, gable verge linings – suspected asbestos containing fibre cement sheet.

Building No. 29, Kiosk

- External, between adjacent buildings, debris to ground – asbestos containing fibre cement sheet; and
- Internal/ external, windows – asbestos containing caulking.

Building Links

- External/ internal, link connecting Building No.1 to Building No.2, windows – asbestos containing caulking;
- External/ internal, link connecting Building No.1 to Building No.24, windows – asbestos containing caulking;
- External, north elevation between buildings No. 16 and No.17, wall cladding – asbestos containing fibre cement sheet;
- Internal, link adjacent building No.19, switchboard – suspected asbestos containing bituminous backing board;
- Internal, link adjacent building No.19, pipework – suspected asbestos containing concealed pipe lagging;
- Internal, link adjacent building No.19, bulkhead – asbestos containing fibre cement sheet;
- Internal, link adjacent building No.19, wall lining to both sides of corridor – asbestos containing fibre cement sheet;
- Internal, link connecting buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, throughout, light grey floor covering – asbestos containing vinyl floor tiles;
- Internal, link connecting buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, throughout, black floor covering – asbestos containing vinyl floor tiles;
- Internal, link connecting buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, throughout, blue grey floor covering – asbestos containing vinyl floor tiles;
- Internal, link connecting buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, throughout, (larger size) light grey floor covering – asbestos containing vinyl floor tiles;
- Internal, link connecting buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, throughout, adhesive to floor tiles –asbestos containing bituminous adhesive; and
- Internal/ external, throughout link connecting Buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, windows – asbestos containing caulking.

Lead-based Paint

- Building No.16, External, throughout, downpipes and trim – maroon paint system;
- Building No.16, External, throughout, window frames, skirting and eaves – white paint system;
- Building No.16, External, room 1739, wall cladding – pink paint system;
- Building No.16, Internal, room 1736, ceiling – white paint system;
- Building No.17, External, throughout, windows, trims and eaves – white paint system;
- Building No.17, Internal, throughout, ceiling – white paint system;
- Building No.19, Internal, corridor adjacent to building and room 1701, walls and ceiling – yellow paint system;
- Building No.19, Internal, corridor adjacent to building and room 1701, walls and ceiling – beige undercoat;
- Building No.20, External, throughout, trim and lower walls – maroon paint system;
- Building No.20, Internal, room 6001, windows – blue paint system;
- Building No.20, Internal, room 6001, windows – white paint system; and
- Throughout, External, guttering, pipes and trim – maroon paint system.

Lead-containing Dust

- Building No.1, Internal, lower ground plantrooms, dust to surfaces throughout – 720 mg/kg lead content;
- Building No.1, Internal, ground, ceiling cavity, dust to surfaces – 64 mg/kg lead content;
- Building No.1, Internal, rooftop plantroom – 140 mg/kg lead content;
- Building No.2, Internal, level 1, ceiling cavity, dust to surfaces – 23 mg/kg lead content;
- Building No.6, Internal, throughout, ceiling cavity, dust to surfaces – 1,400 mg/kg lead content;
- Building No.20, Internal, throughout, ceiling cavity, dust to surfaces – 200 mg/kg lead content;
- Building No.24: Internal, throughout, ceiling cavity/plantroom, dust to surfaces – 43 mg/kg lead content;
- Building No. 25: Internal, throughout. ceiling cavity, dust to surfaces – 270 mg/kg lead content; and
- Links throughout: Internal, ceiling cavity areas – suspected lead containing dust.

Synthetic Mineral Fibre Materials

- Building No.1, External, rooftop, fixed ductwork – suspected SMF insulation lining;
- Building No.1, Internal, sporadic throughout ceiling – suspected SMF compressed ceiling tiles;
- Building No.1, Internal, ceiling cavities, ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.1, Internal, ceiling cavities, pipe insulation – suspected SMF internal insulation;
- Building No.1, Internal, ceiling cavity level 1, batting – suspected SMF insulation;
- Building No.1, Internal, LG plantrooms, pipe insulation – suspected SMF internal insulation;
- Building No.1, Internal, rooftop plantroom, pipe insulation – suspected SMF internal insulation;
- Building No.2, Internal, rooftop plant area, pipework insulation – suspected SMF internal insulation;
- Building No.2, Internal, ceiling cavity level 1 ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.2, Internal, ceiling cavity level 1, pipe insulation – suspected SMF internal insulation;
- Building No.2, Internal, ceiling cavity level 1, batting – suspected SMF insulation;
- Building No.2, Internal, room 2002, foil lined ceiling sarking – suspected SMF insulation;
- Building No.2, Internal, room 2026, foil lined ceiling and upper wall sarking – suspected SMF insulation;
- Building No.2, Internal, room 2126, foil lined ceiling sarking – suspected SMF insulation;
- Building No.2, Internal, sub corridor plantroom, pipe insulation – suspected SMF internal insulation;
- Building No.2, Internal, sub corridor plantroom, hot water unit – suspected SMF internal insulation;
- Building No.4, External, hot water unit – suspected SMF internal insulation;
- Building No.4, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.5, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.6, Internal, throughout, ceiling – suspected SMF compressed ceiling tiles;
- Building No.6, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.16, Internal, room 1740, hot water unit – suspected SMF internal insulation;
- Building No.16, Internal, room 1740, pipework insulation – suspected SMF internal insulation;
- Building No.16, Internal, ceiling cavity, suspected batting – suspected SMF insulation;
- Building No.16, Internal, ceiling cavity, suspected ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.17, External, sub floor, pipework insulation – suspected SMF internal insulation;
- Building No.17, Internal, ceiling cavity, ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.17, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.19, Internal, rooms 1802, 1703, 1704, ceiling – suspected SMF compressed ceiling tiles;
- Building No. 20, Internal, ceiling cavity, suspected batting – suspected SMF insulation;

- Building No. 20, Internal, ceiling cavity, suspected ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.22, Internal, ceiling cavity, suspected batting – suspected SMF insulation;
- Building No.22, External, west elevation, hot water unit – suspected SMF internal insulation;
- Building No.24, Internal, room 3002, hot water unit – suspected SMF internal insulation;
- Building No.24, Internal, room 3039, hot water unit – suspected SMF internal insulation;
- Building No.24, Internal, ceiling cavity, foil lined roof sarking – suspected SMF insulation;
- Building No.24, Internal, ceiling cavity, ductwork – suspected SMF internal insulation;
- Building No.24, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.25, External, room 2106, hot water unit – suspected SMF internal insulation;
- Building No.25, Internal, ceiling cavity, ductwork – suspected SMF internal insulation;
- Building No.25, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.26, External, south elevation, hot water unit – suspected SMF internal insulation;
- Building No.27, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.27, Internal, ceiling cavity, foil lined roof sarking – suspected SMF insulation;
- Building No.28, Internal, ceiling cavity, suspected batting – suspected SMF insulation;
- Building No.28, Internal, ceiling cavity, suspected ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.29, Internal, ceiling cavity, suspected batting – suspected SMF insulation; and
- Building No.29, Internal, ceiling cavity, suspected ductwork (fixed and flexible) – suspected SMF insulation lining.

Polychlorinated Biphenyls

- Throughout all areas, Open and cased light fittings – suspected PCB containing capacitors.

Ozone Depleting Substances.

- Building No.1, External, rooftop, 'Ultimate' AC unit, unknown refrigerant – suspected ODS containing refrigerant;
- Building No.1, External, adjacent main entrance, 'Hitachi' AC unit' – R22 ODS containing refrigerant;
- Building No.2, External, room 2002, 'LG' AC unit' – R22 ODS containing refrigerant;
- Building No.6, External, north elevation, 'Arkair' AC unit' – R22 ODS containing refrigerant;
- Building No.6, External, rooftop, inaccessible units, unknown refrigerants – suspected ODS containing refrigerants;
- Building No.16, External, north and west elevations, 'Fujitsu' AC unit' – R22 ODS containing refrigerant;
- Building No.22, External, east and west elevations, 'Fujitsu' AC unit' – R22 ODS containing refrigerant;
- Building No.22, External, west elevation, 'Sanyo AC unit' – R22 ODS containing refrigerant; and
- Building No.22, External, sub floor, inaccessible units/ information labels – suspected ODS containing refrigerants.

In addition to the above, areas of No Access or Limited Access were present and are described in Section 3.3. It should be presumed that hazmat are present in these areas until further inspection can confirm or refute their presence.

A number of other recommendations were made in the body of this report which address the management of hazardous building materials at this site.

This executive summary must be read in conjunction with this entire report and the limitations contained therein.

1. Introduction

Coffey Services Australia Pty Ltd (Coffey) was commissioned by CBRE to conduct a limited intrusive hazardous materials (hazmat) assessment of select buildings at the Griffith Base Hospital (the Site). Matt Hemingway of Coffey conducted the initial phase of the investigation on 16 – 17th March, 2020, with the remainder of the areas being assessed by Matt Hemingway and Jacob Iskenderian of Coffey on the 17th – 19th September 2020.

The purpose of the hazmat assessment was to assess and document the health risks posed by hazmat, including asbestos-containing materials (ACM) which may be disturbed by upcoming refurbishment works. This is in order to meet the requirements of the relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes

As the site was operational at the time of the survey, access was deemed limited. Should any other material suspected to contain asbestos or hazmat be found at the site or are not included in this report, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.

1.1. Site information

The limited intrusive hazmat assessment was undertaken on the following nominated areas and buildings located at the Griffith Base Hospital (the site):

- Building No.1, Main Service Building & Emergency Department;
- Building No.2, General Ward Block;
- Building No.6, Maternity Unit;
- Building No.16, Doctors Rooms;
- Building No.17, Specialist Clinics;
- Building No.19, Biomedical;
- Building No.20, Dietics;
- Building No.22, Medical Imaging;
- Building No.23, Quality;
- Building No.24, Paediatrics;
- Building No.25, TRACS;
- Building No.28, Office;
- Building No.29, Kiosk; and
- Building links connecting the above listed areas.

At the request of CBRE, the following buildings were subject to a visual assessment only;

- Building No.4, Nurse Education;
- Building No.5, Dentistry;
- Building No.26, Relatives Overnight Stay; and
- Building No.27, Staff Accommodation Units

Table 1: Site information	
Site: Griffith Base Hospital	
Age (Circa): Unknown	**External walls:** Brick, metal, cement sheet
Approximate area: 20,000m^2	**Internal walls:** Plasterboard, brick, cement sheet, concrete
Levels: Multiple	**Ceiling:** Plasterboard, concrete, cement sheet
Roof types: Metal/ tiles	**Floor and coverings:** Concrete, carpet and vinyl

1.2. Objective and Scope of Works

The objectives/scope of the hazmat assessment was to:

- Identify the presence of the following confirmed and or suspected hazmat building materials within accessible areas of nominated building(s):
  - Asbestos-Containing Material (ACM);
  - Lead-Based Paint (LBP);
  - Lead-Containing Dust (LCD);
  - Synthetic Mineral Fibres (SMF);
  - Polychlorinated Biphenyls in fluorescent light capacitors (PCBs); and
  - Ozone depleting substances (ODSs).
- Collect samples of suspected ACM and/or LBP and LCP, for analysis by a NATA accredited laboratory;
- Visually determine the presence of SMF, PCB-containing light fittings and ODSs;
- Assess the risks associated with identified hazmat;
- Recommend risk management strategies to mitigate risks associated with ACM for ongoing occupancy; and
- Prepare a detailed assessment report in alignment with the requirements of relevant State/Territory Regulations, Compliance Codes, Codes of Practice and Guidance Notes.

2. Findings

The results of the hazmat Assessment are provided in a register format which is designed to provide readily available information about the presence of hazmat in the workplace.

2.1. Analytical Findings

2.1.1. ACM sample analysis results

A total of one hundred and fifteen (115) samples of suspected ACM were collected and submitted to Coffey's NATA accredited laboratory for analysis. The asbestos bulk sample analysis report is provided in **Appendix B: Laboratory Analysis Certificates** of this assessment report. In summary, 52 samples were reported to contain asbestos.

2.1.2. LBP sample analysis results

In total, fifteen (15) LBP sample was collected and submitted under chain-of-custody for analysis at a 3rd party NATA Accredited Laboratory. Of the samples submitted and analysed, eleven (11) reported lead concentrations above the respective criteria for lead content in paint (0.1%w/w).

2.1.3. LCD sample analysis results

In total, eight (8) LCD samples were collected and submitted under chain-of-custody for analysis at a 3rd party NATA Accredited Laboratory. Of the samples submitted and analysed, two samples reported lead concentrations above 300 mg/kg (residential/childcare threshold), however, due to the non-homogenous nature of lead containing dust and the age of the buildings, areas with discernible dust, including but not limited to ceiling voids, sub floors, and wall cavities should be considered contaminated. Prior to refurbishment or demolition, a risk assessment is to be conducted to determine the appropriate controls and/or remediation strategy required.

2.2. Assessment Findings

The findings of this assessment are presented in tabulated format, including building materials that have been photographed are depicted in **Appendix A: Asbestos and Hazmat Register**.

The following significant key findings are noted:

2.2.1. Asbestos Containing Materials

Building No. 1, Main Service Building & Emergency Department

- Internal, throughout (including concealed), 'pebble' look beige floor covering – asbestos containing paper backed vinyl floor sheeting;
- Internal, room 1142, in service HRC fuses – suspected asbestos containing internal millboard membrane;
- Internal, room 1121, in service HRC fuses – suspected internal millboard membrane;
- Internal, room 1121, MDI units – asbestos containing mastic;
- Internal, throughout rooms 1101, 1102, 1104, ceiling lining – asbestos containing fibre cement sheet;
- Internal, room 1147, boxing to corner – asbestos containing fibre cement sheet;
- Internal, room 1147, ceiling lining – asbestos containing fibre cement sheet;
- Internal, room 1041 & office male bathroom, boxing to corner of room – asbestos containing fibre cement sheet;
- Internal, recovery store room, bulk head – asbestos containing fibre cement sheet;
- Internal, room 1092, ceiling lining – asbestos containing fibre cement sheet;
- Internal, room 1093, in service/spare HRC fuses – suspected internal millboard membrane;
- Internal, corridor 1080, adjacent lift, double fire doors (unlabelled) – suspected asbestos containing door core insulation;
- Internal, LG plantroom, red/brown gaskets throughout – asbestos containing gaskets;
- Internal, LG plantroom, exposed red gasket – asbestos containing gasket;
- Internal, LG plantroom, in-service HRC fuses to switchboard – suspected asbestos containing internal millboard membrane;
- Internal, LG plantroom, mechanical ductwork – suspected asbestos containing internal components;
- Internal, LG plantroom, HVAC ductwork join – asbestos containing mastic;
- Internal, rooftop plantroom, mechanical ductwork – suspected asbestos containing internal components;
- Internal, rooftop plantroom, HVAC ductwork join – asbestos containing mastic; and

- Internal/ external, sporadic windows throughout – asbestos containing window caulking.

Building No. 2, General Ward Block

- External, rooftop, gable verge linings – asbestos containing fibre cement sheet;
- External, rooftop, HVAC ductwork join – asbestos containing mastic;
- External, throughout, building joint to window frames – asbestos containing mastic;
- Internal, south west roofing, concealed ceiling lining immediate to roof tiles – asbestos containing fibre cement sheet;
- Internal, foyer adjacent room 2004, double fire doors (unlabelled) – suspected asbestos containing door core insulation;
- Internal, foyer adjacent room 2104, double fire doors (unlabelled) – suspected asbestos containing door core insulation;
- Internal, sub floor network, sporadic debris throughout – asbestos containing fibre cement sheet;
- Internal, sub floor network, red gasket to red pipework – asbestos containing gasket material;
- Internal, sub floor network (and suspected throughout), black building joint to brickwork – asbestos containing mastic;
- Internal, fire hose cupboards adjacent rooms 2005 & 2105, ceiling lining – asbestos containing fibre cement sheet;
- Internal, room 2105, ceiling lining – asbestos containing fibre cement sheet; and
- Internal/ external, sporadic throughout, windows – asbestos containing caulking.

Building No. 4, Nurse Education

- External, entry awning – suspected asbestos containing fibre cement sheet;
- External, perimeter eaves – suspected asbestos containing fibre cement sheet;
- External, switchboard, backing panel – suspected asbestos containing bituminous board; and
- External, switchboard, in-service HRC fuses – suspected asbestos containing internal millboard membrane.

Building No. 5, Dentistry

- External, entry awning – suspected asbestos containing fibre cement sheet; and
- External, perimeter eaves – suspected asbestos containing fibre cement sheet.

Building No. 6, Maternity Unit

- External, throughout, eaves – asbestos containing fibre cement sheet;
- External, entry awning panels – asbestos containing fibre cement sheet;
- Internal, throughout (concealed), 'pebble' look beige floor covering – asbestos containing paper backed vinyl floor sheeting;
- Internal, rooms 4013 and 4014, ceiling lining – asbestos containing fibre cement sheet; and
- Internal, room 4045, infill panel above and below windows – asbestos containing fibre cement sheet.

Building No. 16, Doctors Rooms

- External, south elevation, debris to ground – asbestos containing fibre cement sheet;
- External, north and east elevations, eaves – asbestos containing fibre cement sheet;
- External, room 1739, cladding panels – asbestos containing fibre cement sheet;
- Internal, sub floor, pipe lagging – suspected asbestos containing insulation material;
- Internal, room 1739, ceiling lining – asbestos containing fibre cement sheet;
- Internal, room 1739, wall lining – asbestos containing fibre cement sheet; and
- Internal, room 1740, ceiling lining – asbestos containing fibre cement sheet.

Building No. 17, Specialist Clinics

- External, sub floor, pipe lagging debris – asbestos containing insulation material;

- External, sub floor, packers – suspected asbestos containing fibre cement sheet; and
- Internal, throughout, concealed 'pebble' look beige floor covering – asbestos containing paper backed vinyl sheeting.

Building No. 19, Biomedical

- Internal, throughout (including concealed in room 1708), 'pebble' look beige floor covering – asbestos containing paper backed vinyl floor sheeting;
- Internal, room 1713, ceiling lining – asbestos containing fibre cement sheet;
- Internal, rooms 1701, 1702, 1703 & 1704, concealed ceiling lining – asbestos containing fibre cement sheet.

Building No. 20, Dietics

- Internal, room 6003 and adjoining corridor, beige floor covering – asbestos containing vinyl floor tiles;
- Internal, room 6003, grey floor covering – asbestos containing vinyl floor tiles; and
- Internal, room 6001, loading area wall lining – asbestos containing fibre cement sheet.

Building No. 22, Medical Imaging

- Internal, room 3025, MDI unit – asbestos containing mastic; and
- Internal, entry way, fire doors (double) – asbestos containing door core insulation.

Building No. 24, Paediatrics

- Internal, room 3039 HVAC system – suspected asbestos containing internal components.

Building No.26, Relatives Overnight Stay

- External, throughout, gable verge linings – suspected asbestos containing fibre cement sheet.

Building No. 29, Kiosk

- External, between adjacent buildings, debris to ground – asbestos containing fibre cement sheet; and
- Internal/ external, windows – asbestos containing caulking.

Building Links

- External/ internal, link connecting Building No.1 to Building No.2, windows – asbestos containing caulking;
- External/ internal, link connecting Building No.1 to Building No.24, windows – asbestos containing caulking;
- External, north elevation between buildings No. 16 and No.17, wall cladding – asbestos containing fibre cement sheet;
- Internal, link adjacent building No.19, switchboard – suspected asbestos containing bituminous backing board;
- Internal, link adjacent building No.19, pipework – suspected asbestos containing concealed pipe lagging;
- Internal, link adjacent building No.19, bulkhead – asbestos containing fibre cement sheet;
- Internal, link adjacent building No.19, wall lining to both sides of corridor – asbestos containing fibre cement sheet;
- Internal, link connecting buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, throughout, light grey floor covering – asbestos containing vinyl floor tiles;
- Internal, link connecting buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, throughout, black floor covering – asbestos containing vinyl floor tiles;
- Internal, link connecting buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, throughout, blue grey floor covering – asbestos containing vinyl floor tiles;
- Internal, link connecting buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, throughout, (larger size) light grey floor covering – asbestos containing vinyl floor tiles;

- Internal, link connecting buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, throughout, adhesive to floor tiles –asbestos containing bituminous adhesive; and
- Internal/ external, throughout link connecting Buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29, windows – asbestos containing caulking.

2.2.2. Lead-based Paint

- Building No.16, External, throughout, downpipes and trim – maroon paint system;
- Building No.16, External, throughout, window frames, skirting and eaves – white paint system;
- Building No.16, External, room 1739, wall cladding – pink paint system;
- Building No.16, Internal, room 1736, ceiling – white paint system;
- Building No.17, External, throughout, windows, trims and eaves – white paint system;
- Building No.17, Internal, throughout, ceiling – white paint system;
- Building No.19, Internal, corridor adjacent to building and room 1701, walls and ceiling – yellow paint system;
- Building No.19, Internal, corridor adjacent to building and room 1701, walls and ceiling – beige undercoat;
- Building No.20, External, throughout, trim and lower walls – maroon paint system;
- Building No.20, Internal, room 6001, windows – blue paint system;
- Building No.20, Internal, room 6001, windows – white paint system; and
- Throughout, External, guttering, pipes and trim – maroon paint system.

2.2.3. Lead-containing Dust

- Building No.1, Internal, lower ground plantrooms, dust to surfaces throughout – 720 mg/kg lead content;
- Building No.1, Internal, ground, ceiling cavity, dust to surfaces – 64 mg/kg lead content;
- Building No.1, Internal, rooftop plantroom – 140 mg/kg lead content;
- Building No.2, Internal, level 1, ceiling cavity, dust to surfaces – 23 mg/kg lead content;
- Building No.6, Internal, throughout, ceiling cavity, dust to surfaces – 1,400 mg/kg lead content;
- Building No.20, Internal, throughout, ceiling cavity, dust to surfaces – 200 mg/kg lead content;
- Building No.24, Internal, throughout, ceiling cavity/plantroom, dust to surfaces – 43 mg/kg lead content;
- Building No. 25, Internal, throughout. ceiling cavity, dust to surfaces – 270 mg/kg lead content; and
- Links throughout: Internal, ceiling cavity areas – suspected lead containing dust.

2.2.4. Synthetic Mineral Fibre Materials

- Building No.1, External, rooftop, fixed ductwork – suspected SMF insulation lining;
- Building No.1, Internal, sporadic throughout ceiling – suspected SMF compressed ceiling tiles;
- Building No.1, Internal, ceiling cavities, ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.1, Internal, ceiling cavities, pipe insulation – suspected SMF internal insulation;
- Building No.1, Internal, ceiling cavity level 1, batting – suspected SMF insulation;
- Building No.1, Internal, LG plantrooms, pipe insulation – suspected SMF internal insulation;
- Building No.1, Internal, rooftop plantroom, pipe insulation – suspected SMF internal insulation;
- Building No.2, Internal, rooftop plant area, pipework insulation – suspected SMF internal insulation;
- Building No.2, Internal, ceiling cavity level 1 ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.2, Internal, ceiling cavity level 1, pipe insulation – suspected SMF internal insulation;
- Building No.2, Internal, ceiling cavity level 1, batting – suspected SMF insulation;
- Building No.2, Internal, room 2002, foil lined ceiling sarking – suspected SMF insulation;

- Building No.2, Internal, room 2026, foil lined ceiling and upper wall sarking – suspected SMF insulation;
- Building No.2, Internal, room 2126, foil lined ceiling sarking – suspected SMF insulation;
- Building No.2, Internal, sub corridor plantroom, pipe insulation – suspected SMF internal insulation;
- Building No.2, Internal, sub corridor plantroom, hot water unit – suspected SMF internal insulation;
- Building No.4, External, hot water unit – suspected SMF internal insulation;
- Building No.4, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.5, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.6, Internal, throughout, ceiling – suspected SMF compressed ceiling tiles;
- Building No.6, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.16, Internal, room 1740, hot water unit – suspected SMF internal insulation;
- Building No.16, Internal, room 1740, pipework insulation – suspected SMF internal insulation;
- Building No.16, Internal, ceiling cavity, suspected batting – suspected SMF insulation;
- Building No.16, Internal, ceiling cavity, suspected ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.17, External, sub floor, pipework insulation – suspected SMF internal insulation;
- Building No.17, Internal, ceiling cavity, ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.17, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.19, Internal, rooms 1802, 1703, 1704, ceiling – suspected SMF compressed ceiling tiles;
- Building No. 20, Internal, ceiling cavity, suspected batting – suspected SMF insulation;
- Building No. 20, Internal, ceiling cavity, suspected ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.22, Internal, ceiling cavity, suspected batting – suspected SMF insulation;
- Building No.22, External, west elevation, hot water unit – suspected SMF internal insulation;
- Building No.24, Internal, room 3002, hot water unit – suspected SMF internal insulation;
- Building No.24, Internal, room 3039, hot water unit – suspected SMF internal insulation;
- Building No.24, Internal, ceiling cavity, foil lined roof sarking – suspected SMF insulation;
- Building No.24, Internal, ceiling cavity, ductwork – suspected SMF internal insulation;
- Building No.24, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.25, External, room 2106, hot water unit – suspected SMF internal insulation;
- Building No.25, Internal, ceiling cavity, ductwork – suspected SMF internal insulation;
- Building No.25, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.26, External, south elevation, hot water unit – suspected SMF internal insulation;
- Building No.27, Internal, ceiling cavity, batting – suspected SMF insulation;
- Building No.27, Internal, ceiling cavity, foil lined roof sarking – suspected SMF insulation;
- Building No.28, Internal, ceiling cavity, suspected batting – suspected SMF insulation;
- Building No.28, Internal, ceiling cavity, suspected ductwork (fixed and flexible) – suspected SMF insulation lining;
- Building No.29, Internal, ceiling cavity, suspected batting – suspected SMF insulation; and
- Building No.29, Internal, ceiling cavity, suspected ductwork (fixed and flexible) – suspected SMF insulation lining.

2.2.5. Polychlorinated Biphenyls

- Throughout all areas, Open and cased light fittings – suspected PCB containing capacitors.

2.2.6. Ozone Depleting Substances

- Building No.1, External, rooftop, 'Ultimate' AC unit, unknown refrigerant – suspected ODS containing refrigerant;

- Building No.1, External, adjacent main entrance, 'Hitachi' AC unit' – R22 ODS containing refrigerant;
- Building No.2, External, room 2002, 'LG' AC unit' – R22 ODS containing refrigerant;
- Building No.6, External, north elevation, 'Arkair' AC unit' – R22 ODS containing refrigerant;
- Building No.6, External, rooftop, inaccessible units, unknown refrigerants – suspected ODS containing refrigerants;
- Building No.16, External, north and west elevations, 'Fujitsu' AC unit' – R22 ODS containing refrigerant;
- Building No.22, External, east and west elevations, 'Fujitsu' AC unit' – R22 ODS containing refrigerant;
- Building No.22, External, west elevation, 'Sanyo AC unit' – R22 ODS containing refrigerant; and
- Building No.22, External, sub floor, inaccessible units/ information labels – suspected ODS containing refrigerants.

2.3. Access restrictions

Where no access or limited access areas have been identified it should be presumed that hazmat are present in these areas until further investigation can confirm or refute their presence.

No inspection can be guaranteed to locate all hazmat in specific locations. The assessment cannot be regarded as absolute, without extensive invasion of structures. Future demolition and or renovation to site structures may expose situations, which were concealed or otherwise impractical to access during this assessment.

2.3.1. No access areas

The following areas were not accessible at the time of the assessment:

- Within live electrics, operational plant, inaccessible plant (including boilers) and ductwork throughout site;
- Within locked electrical cupboards throughout site;
- Inaccessible sub floor areas;
- Building No.1, room 1172;
- Building No.2, room 2106;
- Building No.6, female bathrooms;
- Building No.6, operational heater units;
- Building No.19, old theatre adjacent room 1705;
- Building No.22, radiation hazard areas; and
- Buildings and areas outside the scope of the assessment.

2.3.2. Limited access areas

Access to the following areas was limited at the time of the assessment:

- Rooms/areas occupied by in-patients;
- Rooftops;
- Ceiling voids;
- Wall voids;
- Below floors;
- Risers;
- Behind wall ceramic tiles; and
- Beneath floor coverings.

3. Recommendations

The following recommendations are provided with respect to hazmat identified during the assessment of the site. This assessment only covers the parts of the site that have been accessed and been assessed in accordance with the approved scope.

3.1. Asbestos-containing materials

The preference will always be to eliminate the asbestos hazards from the site and if it is practicable for the occupier to do so then asbestos removal should always be considered.

ACM onsite found to be in friable and poor condition, such as the exposed gasket to LG plantroom of Building No.1, and the pipe lagging debris to sub floor areas of Building No.17, must be addressed immediately; access to the areas must be restricted and the material removed as soon possible by a suitably licensed asbestos removalist contractor.

ACM onsite found to be in friable but stable condition, such as HRC fuses, mastic to MDI units and enclosed pipe lagging, should be removed by a suitably licensed asbestos removalist contractor but can be managed in-situ and periodically inspected if removal is not practicable.

ACM onsite which were found to be bonded but in poor condition, such as fibre cement sheet debris to external ground and subfloor surfaces, should be removed by a suitably licensed asbestos removalist contractor.

ACM on site which were found to be in a bonded and stable condition, may be managed in situ and periodically inspected if removal is not practicable. If managed in situ, all identified or presumed ACM should be appropriately labelled, where possible, and regularly inspected to assess their condition and potential changes to health risk.

Prior to any demolition, partial demolition, renovation or refurbishment, all ACM likely to be disturbed by those works should be removed in accordance with relevant codes of practices, compliance codes and legislation.

Remaining ACM identified or presumed should be appropriately labelled where possible. Those items should be regularly inspected to ensure they are not deteriorating and resulting in a potential risk to health.

An asbestos management plan (AMP) should be created and maintained for all ACM that remain at the site to assist the persons conducting a business or undertaking (PCBU) with the management of these materials. The AMP must ensure that suitable control measures are implemented to prevent site personnel and others from being exposed to airborne asbestos fibres.

During future demolition works, if any materials that are not referenced in this report and are suspected of containing asbestos are encountered, then works must cease and an asbestos hygienist should be notified to determine whether the material contains asbestos

The recommendations, conclusions or stability of asbestos materials contained in this report shall not abrogate a person of their responsibility to work in accordance with statutory requirements, codes of practice, guidelines, material safety data sheets, work instructions or reasonable work practices.

3.2. Synthetic mineral fibres

SMF materials that are likely to be disturbed during any proposed demolition/refurbishment works should be handled in accordance with *The National Code of Practice for the Safe Use of Synthetic Mineral Fibres* [NOHSC:2006(1990)].

3.3. Lead-based paint

Any works that are likely to disturb a LBP surface should be undertaken in accordance with the Australian Standard (AS4361.2:2017), Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings.

Any loose and peeling LBP should be stabilised (using hand -held scrapers, drop cloths and wet misting where appropriate) and the paint chips disposed of as hazardous waste.

Any remediation works that may generate dust or fumes (i.e. sanding, burning) must be performed under controlled conditions by a suitably resourced and experienced hazardous material/waste abatement contractor (e.g. a Class A licensed asbestos removal contractor).

3.4. Lead-containing dust

Due to the non-homogenous nature of lead containing dust and the age of the buildings, areas with discernible dust, including but not limited to ceiling voids, sub floors, and wall cavities should be considered contaminated. Prior to refurbishment or demolition, a risk assessment is to be conducted to determine the appropriate controls and/or remediation strategy required.

Any work processes involving lead-containing dust must be undertaken in a manner to ensure that no worker is exposed to lead at concentrations above occupational exposure standard (OES) of 0.05mg/m^3 over an eight-hour day.

Lead-containing dust removal works should include the use of high efficiency particulate air (HEPA) filtered vacuum cleaners and wet wiping techniques by a licensed contractor under controlled lead-containing dust conditions in conjunction with air monitoring and clearances by a competent hygienist.

3.5. Polychlorinated biphenyls

It may not be considered feasible to inspect every light fitting within a premise as information available in the public domain on the identification of PCB-containing capacitors is limited. However, all metal capacitors should be treated as containing PCB unless determined otherwise

All capacitors containing or suspected as PCB or the fluorescent light fittings likely to be disturbed during future works should be removed prior to any future demolition, partial demolition, renovation or refurbishment in accordance with Department of Occupational Health, Safety and Welfare, *Safe Handling of PCB in Fluorescent Light Capacitors* – 1993 and with the *Polychlorinated Biphenyls Management Plan, Revised Edition April* 2003.

3.6. Ozone depleting substances

Removal of refrigerants should to be undertaken prior to any future demolition, partial demolition, renovation or refurbishment, where ODS's are likely to be disturbed.

A licensed contractor who will recycle and reuse the refrigerant should decommission CFC and HCFC based equipment that is being disposed of in accordance with Association of Fluorocarbon Consumers and Manufacturers, The Australian Refrigeration and Air Conditioning Code of Good Practice – 1992 and the Australian Commonwealth Government Ozone Protection Act – 1989.

3.7. Training

Information, instruction and training must be provided to workers, contractors and others who may come into contact with hazardous materials in a workplace, either directly or indirectly.

Depending on the circumstances this hazardous materials awareness training may include:

- The purpose of the training;
- The health risks of hazardous materials;
- The types, uses and likely occurrence of hazardous materials on site, in plant and/or equipment in the workplace;
- The trainee's roles and responsibilities for hazmat management;
- Where the register of hazmat is located and how it can be accessed;
- The timetable for removal of hazmat from the workplace;
- The processes and procedures to be followed to prevent exposure, including exposure from any accidental release of hazmat into the workplace;
- Where applicable, the correct use of maintenance and control measures, protective equipment and work methods to minimise the risks from hazmat, limit the exposure of workers and limit the spread of hazmat outside any work area;
- The National Exposure Standard (NES) and control levels for hazmat; and
- The purpose of any air monitoring or health surveillance that may occur.

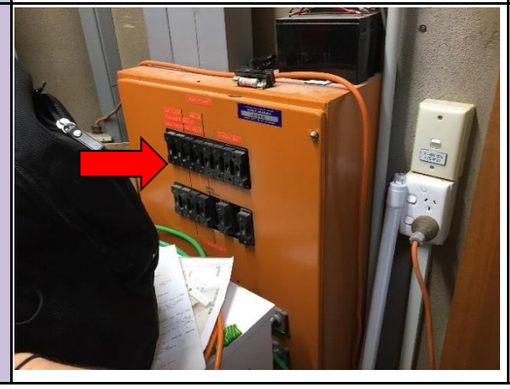
Should any further suspect asbestos and/or hazmat become evident during future disturbance/ refurbishment works which have not been addressed in this report, Coffey should be contacted immediately so that a WHS consultant can confirm the status of the suspect material/s.

Coffey is able to assist with all aspects of Risk Management for removal of asbestos and other hazardous materials resulting from these findings.

Appendix A: Asbestos and Hazmat Register

Asbestos Materials Register

This document is issued in accordance with NATA's accreditation requirements. NATA accredited inspection body 2220.

Surveyor: Matt Hemingway & Jake Iskenderian										**Assessment Type:** Pre-Demolition Hazmat		**Date:** 19-08-2020
Site Contact: Frank Portolesi										**Site / Location**: Griffith Hospital		**Review Date:** August 2025
Primary Location	**Secondary Location**	**Description**	**Photograph No.**	**Sample Number**	**Sample Results**	**Approx. Quantity**	**Friablitiy**	**Condition**	**Accessibility**	**Action Rating**	**Photograph**	**Recommendations**
Asbestos-containing Materials												
Building No. 1, Main Service Building & Emergency Department												
Internal, throughout (including concealed)	'Pebble' look beige floor covering	Paper backed vinyl floor sheeting	1	84450	Chrysotile Asbestos Detected	200m^2 +	Y	F	L	**Low**		Seal any exposed edges and maintain in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.
Internal, room 1142	In service HRC fuses	Internal millboard membrane	2	Visual observation	Assumed to contain Asbestos	Multiple units	Y	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.

Asbestos Materials Register

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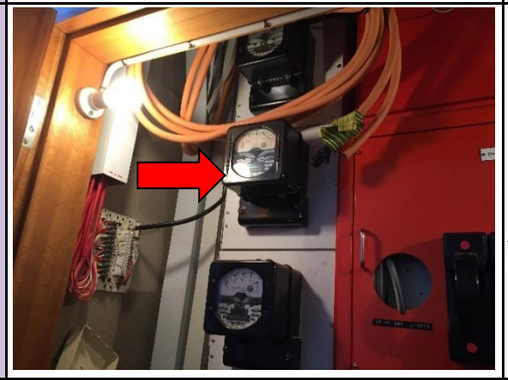
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, room 1121	In service HRC fuses	Internal millboard membrane	3	Visual observation	Assumed to contain Asbestos	Multiple units	Y	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.
Internal, room 1121	MDI units	Mastic	4	Refer 84427	Chrysotile Asbestos Detected	3 units	Y	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.
Internal, throughout rooms 1101, 1102, 1104	Ceiling lining	Fibre cement sheet	5	84455	Chrysotile Asbestos Detected	30m^2	N	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

Asbestos Materials Register

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, room 1147	Boxing to corner	Fibre cement sheet	6	84456	Chrysotile Asbestos Detected	4m^2	N	P	L	**Low**		Seal exposed edges and maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, room 1147	Ceiling lining	Fibre cement sheet	7	Refer 84455	Chrysotile Asbestos Detected	30m^2	N	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, room 1041 & office male bathroom	Boxing to corner of room	Fibre cement sheet	15	84451	Chrysotile Asbestos Detected	N/A	N	G	L	**Very low**		Maintain in current condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

Friability: N/A - Not Applicable, N - Non-Friable, Y - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Asbestos Materials Register

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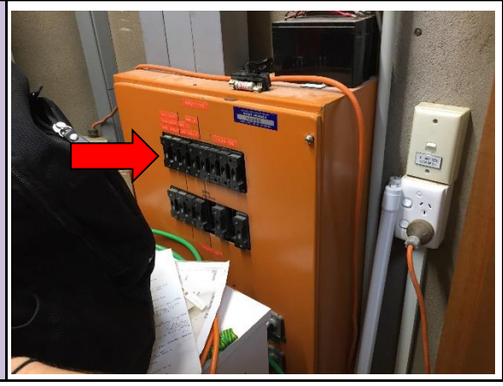
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, recovery store room	Bulk head	Fibre cement sheet	16	84447	Chrysotile Asbestos Detected	N/A	N	G	L	**Very low**		Maintain in current condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, room 1092	Ceiling lining	Fibre cement sheet	17	84449	Chrysotile Asbestos Detected	5m^2	N	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, room 1093	In service/spare HRC fuses	Internal millboard membrane	18	Visual observation	Assumed to contain Asbestos	Multiple units	Y	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.

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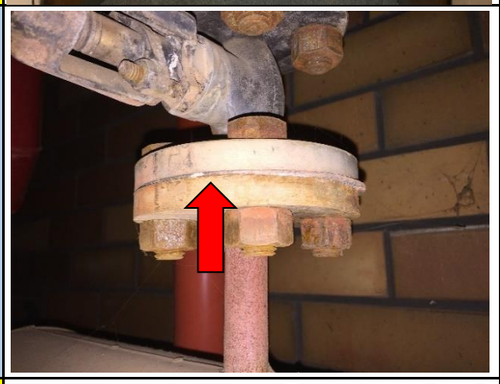
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, corridor 1080, adjacent lift	Double fire doors (unlabelled)	Door core insulation	19	Visual observation	Assumed to contain Asbestos	2 units	Y	G	H	**Medium**		Investigate internal components of fire doors when building is in vacant possession. If asbestos containing door core insulation is identified, remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a suitably licensed asbestos removal contractor.
Internal, LG plantroom	Red/brown gaskets throughout	Gaskets	8	84463, 69318	Chrysotile Asbestos Detected	2 units	Y	G	L	**Low**		Maintain in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.
Internal, LG plantroom	Exposed red gasket	Gasket	9	69319	Chrysotile Asbestos Detected	1 unit	Y	P	L	**Medium**		Restrict access to area. Remove under controlled friable asbestos removal conditions by a Class A (friable) licensed asbestos removal contractor.

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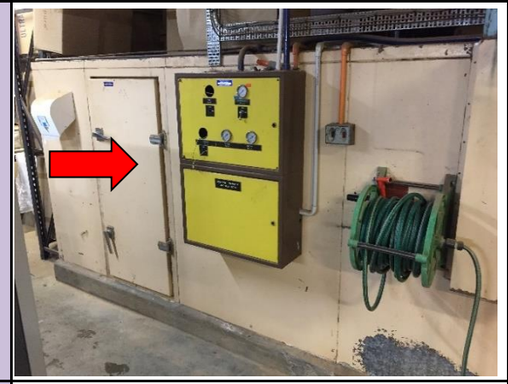
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, LG plantroom	In service HRC fuses to switchboard	Internal millboard membrane	10	Visual observation	Assumed to contain Asbestos	Multiple units	Y	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.
Internal, LG plantroom	Mechanical ductwork	Internal components	11	Visual observation	Assumed to contain Asbestos	N/A	Y	G	L	**Very Low**		Investigate internal components of HVAC system when building is in vacant possession. If asbestos containing components are identified, remove under controlled asbestos removal conditions prior to refurbishment or demolition works by a suitably licensed asbestos removal contractor.
Internal, LG plantroom	HVAC ductwork join	Mastic	12	84462	Chrysotile Asbestos Detected	N/A	N	G	L	**Very low**		Maintain in current condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

Friability: N/A - Not Applicable, N - Non-Friable, Y - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, rooftop plantroom	Mechanical ductwork	Internal components	13	Visual observation	Assumed to contain Asbestos	N/A	Y	G	L	**Very Low**		Investigate internal components of HVAC system when building is in vacant possession. If asbestos containing components are identified, remove under controlled asbestos removal conditions prior to refurbishment or demolition works by a suitably licensed asbestos removal contractor.
Internal, rooftop plantroom	HVAC ductwork join	Mastic	14	69323	Chrysotile Asbestos Detected	N/A	N	G	L	**Very low**		Maintain in current condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal/ external, sporadic throughout	Windows	Caulking	20	84452, 84446, 84429	Chrysotile Asbestos Detected	N/A	N	G	L	**Very Low**		Assess windows individually to distinguish old (asbestos containing caulking) windows from new. Remove windows whole without direct disturbance to caulking under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If scraping out of caulking is undertaken as the removal method, this should be done under friable asbestos controls by a Class A (friable) licensed asbestos removal contractor

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Building No. 2, General Ward Block												
External, rooftop	Gable verge linings	Fibre cement sheet	21	69329	Chrysotile Asbestos Detected	N/A	N	G	VL	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
External, rooftop	HVAC ductwork join	Mastic	23	69328	Chrysotile Asbestos Detected	N/A	N	G	L	**Very low**		Maintain in current condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
External, throughout	Building joint to window frames	Mastic	24	84324	Chrysotile Asbestos Detected	N/A	N	G	L	**Very low**		Maintain in current condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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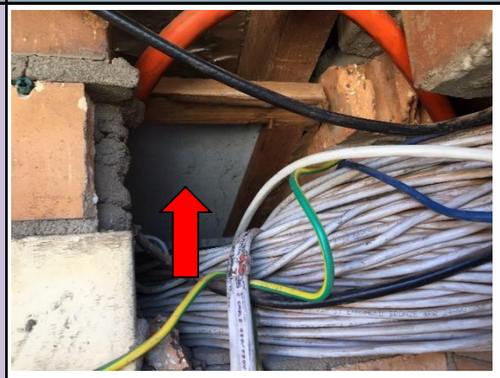
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, south west roofing	Concealed ceiling lining immediate to roof tiles	Fibre cement sheet	22	Visual observation	Assumed to contain Asbestos	N/A	N	G	VL	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, foyer adjacent room 2004	Double fire doors (unlabelled)	Door core insulation	25	Visual observation	Assumed to contain Asbestos	2 units	Y	G	H	**Medium**		Investigate internal components of fire doors when building is in vacant possession. If asbestos containing door core insulation is identified, remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a suitably licensed asbestos removal contractor.
Internal, foyer adjacent room 2104	Double fire doors (unlabelled)	Door core insulation	26	Visual observation	Assumed to contain Asbestos	2 units	Y	G	H	**Medium**		Investigate internal components of fire doors when building is in vacant possession. If asbestos containing door core insulation is identified, remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a suitably licensed asbestos removal contractor.

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Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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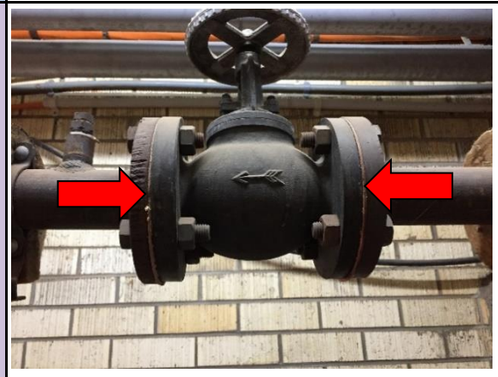
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, sub floor network	Sporadic debris throughout	Fibre cement sheet	27	69325	Chrysotile Asbestos Detected	N/A	N	P	VL	**Low**		Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, sub floor network	Red gasket to red pipework	Gasket material	28	Refer 69318	Chrysotile Asbestos Detected	Multiple units	Y	G	VL	**Very Low**		Maintain in current condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.
Internal, sub floor network (and suspected throughout)	Black building joint to brickwork	Mastic	29	69326	Chrysotile Asbestos Detected	N/A	N	G	VL	**Very low**		Maintain in good condition if to remain in-situ. Confirm status and remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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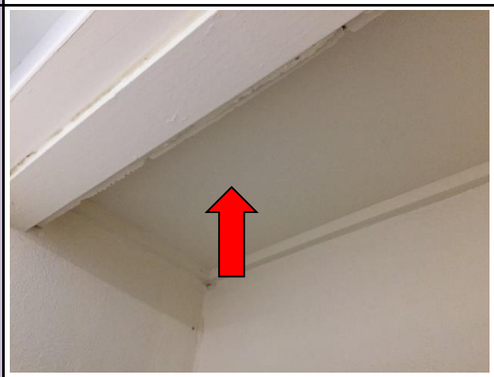
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, fire hose cupboards adjacent rooms 2005 & 2105	Ceiling lining	Fibre cement sheet	30	69332	Chrysotile Asbestos Detected	0.5m^2	N	G	VL	**Very Low**		Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, room 2105	Ceiling lining	Fibre cement sheet	31	Refer 69332	Chrysotile Asbestos Detected	5m^2	N	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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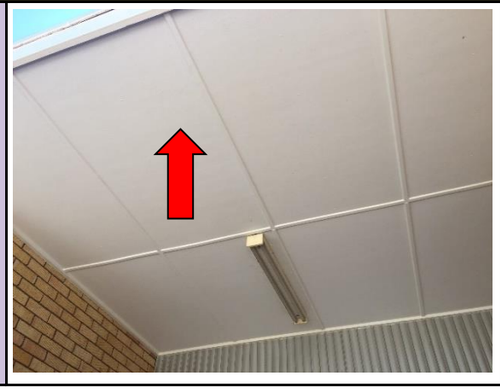
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal/ External , sporadic throughout	Windows	Caulking	32	Refer 84452, 84446, 84429	Chrysotile Asbestos Detected	N/A	N	G	L	**Very Low**		Sample collected from this block did not contain asbestos, but due to age and appearance of the window caulking, this material should be assumed to be asbestos containing. Assess windows individually to distinguish old (asbestos containing caulking) windows from new. Remove windows whole without direct disturbance to caulking under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If scraping out of caulking is undertaken as the removal method, this should be done under friable asbestos controls by a Class A (friable) licensed asbestos removal contractor
Building No. 4, Nurse Education												
The assessment of this building was a visual inspection only, as per Scope of Works												
External, entry	Awning	Fibre cement sheet	33	Visual observation	Assumed to contain Asbestos	$4m^2$	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ. Confirm status and remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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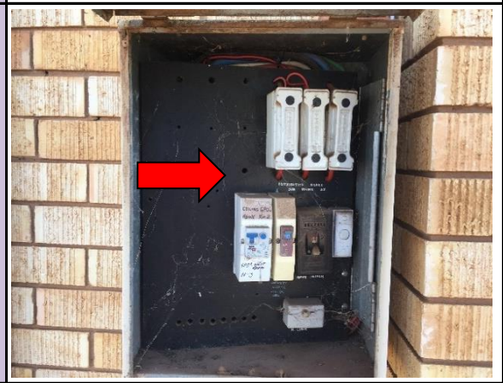
External, perimeter	Eaves	Fibre cement sheet	34	Visual observation	Assumed to contain Asbestos	50m^2	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ. Confirm status and remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
External, switchboard	Backing panel	Bituminous board	35	Visual observation	Assumed to contain Asbestos	1 unit	N	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Confirm status and remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
External, switchboard	In service HRC fuses	Internal millboard membrane	36	Visual observation	Assumed to contain Asbestos	3 units	Y	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.

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Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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Building No. 5, Dentistry												
The assessment of this building was a visual inspection only, as per Scope of Works												
External, entry	Awning	Fibre cement sheet	37	Visual observation	Assumed to contain Asbestos	4m^2	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ. Confirm status and remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
External, perimeter	Eaves	Fibre cement sheet	38	Visual observation	Assumed to contain Asbestos	50m^2	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ. Confirm status and remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Building No. 6, Maternity Unit												
External, throughout	Eaves	Fibre cement sheet	39	82596	Chrysotile & Amosite Asbestos Detected	100m^2 +	N	G	VL	**Very Low**		Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
External, entry	Awning panels	Fibre cement sheet	40	82596	Chrysotile Asbestos Detected	50m^2	N	G	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, throughout (concealed)	'Pebble' look beige floor covering	Paper backed vinyl floor sheeting	41	Refer 84450	Chrysotile Asbestos Detected	200m^2 +	Y	F	L	**Low**		Maintain enclosed and in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, rooms 4013 and 4014	Ceiling lining	Fibre cement sheet	42	84337	Chrysotile Asbestos Detected	4 m^2	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, room 4045	Infill panel above and below windows	Fibre cement sheet	43	84339	Chrysotile Asbestos Detected	30 m^2	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Building No. 16, Doctors Rooms												
External, south elevation	Debris to ground	Fibre cement sheet	44	82591	Chrysotile Asbestos Detected	<1 m^2	N	P	L	**Low**		Remove under controlled non-friable asbestos removal conditions by a Class B (non-friable) licensed asbestos removal contractor.

Friability: N/A - Not Applicable, N - Non-Friable, Y - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Asbestos Materials Register

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
External, north and east elevations	Eaves	Fibre cement sheet	45	82595	Chrysotile & Amosite Asbestos Detected	30 m^2	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
External, room 1739	Cladding panels	Fibre cement sheet	46	82594	Chrysotile Asbestos Detected	10 m^2	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, sub floor	Pipe lagging	Insulation material	47	Previously recorded (not observed 2020)	Assumed to contain Asbestos	N/A	Y	F	VL	**Low**		Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.

Asbestos Materials Register

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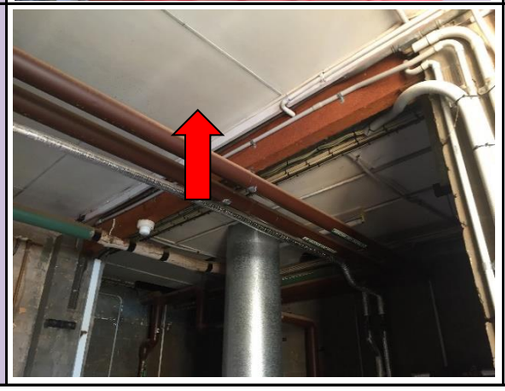
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, room 1739	Ceiling lining	Fibre cement sheet	48	84431	Chrysotile Asbestos Detected	10 m^2	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, room 1739	Wall lining	Fibre cement sheet	49	84432	Chrysotile Asbestos Detected	10 m^2	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, room 1740	Ceiling lining	Fibre cement sheet	50	84396	Chrysotile & Amosite Asbestos Detected	20 m^2	N	F	L	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

Asbestos Materials Register

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Building No. 17, Specialist Clinics												
External, sub floor	Pipe lagging debris	Insulation material	51	84440	Chrysotile & Amosite Asbestos Detected	N/A	Y	P	L	**High**		Restrict access to entire subfloor area immediately. Remove under controlled friable asbestos removal conditions by a Class A (friable) licensed asbestos removal contractor.
External, sub floor	Packers	Fibre cement sheet	52	Visual observation	Assumed to contain Asbestos	N/A	N	F	VL	**Very Low**		Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, throughout	Concealed 'pebble' look beige vinyl floor covering	Paper backed vinyl floor sheeting	53	Refer 84414	Chrysotile Asbestos Detected	200m^2 +	Y	G	L	**Very Low**		Maintain in good condition and enclosed if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.
Building No. 19, Biomedical												
Internal, throughout (including concealed in room 1708)	'Pebble' look beige floor covering	Paper backed vinyl floor sheeting	54	84414	Chrysotile Asbestos Detected	150m^2 +	Y	F	L	**Low**		Seal any exposed edges and maintain in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.
Internal, room 1713	Ceiling lining	Fibre cement sheet	55	84419	Chrysotile Asbestos Detected	15 m^2	N	F	L	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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Internal, rooms 1701, 1702, 1703 & 1704	Concealed ceiling lining	Fibre cement sheet	56	Refer 84419	Chrysotile Asbestos Detected	40 m^2	N	F	L	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Building No. 20, Dietics												
Internal, room 6003 and adjoining corridor	Beige floor covering	Vinyl floor tiles	57	84406	Chrysotile Asbestos Detected	20m^2	N	F	L	**Low**		Seal exposed edges and maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, room 6003	Grey floor covering	Vinyl floor tiles	58	84405	Chrysotile Asbestos Detected	1m^2	N	F	L	**Low**		Seal exposed edges and maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Internal, room 6001	Loading area wall lining	Fibre cement sheet	59	84408	Chrysotile Asbestos Detected	4m^2	N	F	L	**Very Low**		Seal exposed edges and maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Building No. 22, Medical Imaging												
Internal, room 3025	MDI Unit	Mastic	60	84427	Chrysotile Asbestos Detected	1 unit	Y	VG	VL	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to disturbance, refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor.
Internal, entry way	Fire doors (double)	Door core insulation	61	Visual observation	Assumed to contain Asbestos	2 units	Y	VG	L	**Medium**		Investigate internal components of fire doors when building is in vacant possession. If asbestos containing door core insulation is identified, remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a suitably licensed asbestos removal contractor.

Asbestos Materials Register

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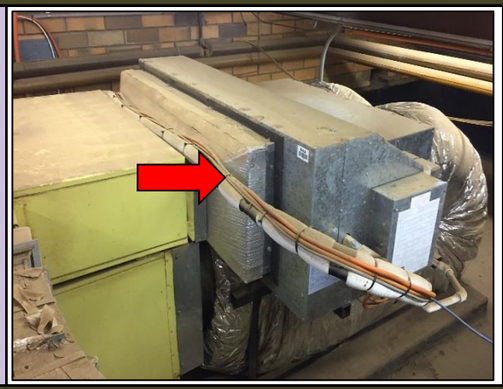
Building No. 23, Quality												
Within the scope and limitations of this survey, no asbestos containing materials were identified or suspected.												
Building No. 24, Paediatrics												
Internal, room 3039	HVAC system	Internal components	62	Visual observation	Assumed to contain Asbestos	N/A	Y	G	L	**Very Low**		Investigate internal components of HVAC system when building is in vacant possession. If asbestos containing components are identified, remove under controlled asbestos removal conditions prior to refurbishment or demolition works by a suitably licensed asbestos removal contractor.
Building No.25, TRACS												
Within the scope and limitations of this survey, no asbestos containing materials were identified or suspected.												
Building No.26, Relatives Overnight Stay												
The assessment of this building was a visual inspection only, as per Scope of Works												
External, throughout	Gable verge linings	Fibre cement sheet	63	Visual observation	Assumed to contain Asbestos	N/A	N	G	VL	**Very Low**		Maintain in good condition if to remain in-situ.Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Building No.27, Staff Accommodation Units												
The assessment of this building was a visual inspection only, as per Scope of Works												
Within the scope and limitations of this survey, no asbestos containing materials were identified or suspected.												

Asbestos Materials Register

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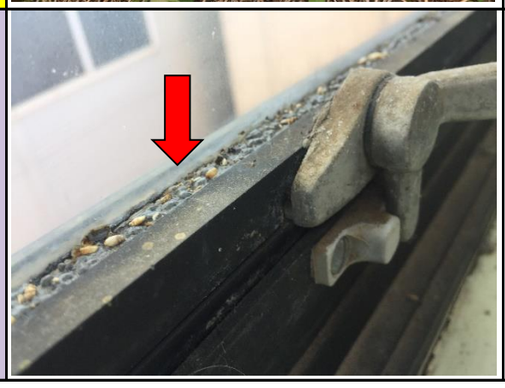
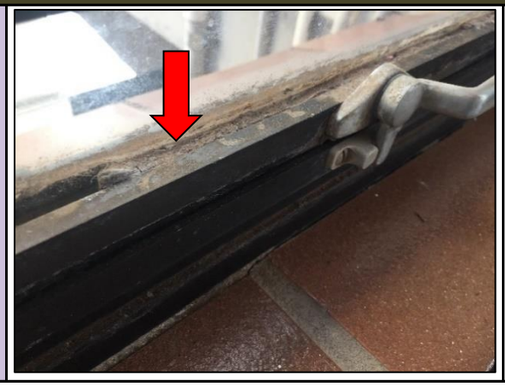
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Building No. 28, Office												
Within the scope and limitations of this survey, no asbestos containing materials were identified or suspected.												
Building No. 29, Kiosk												
External, between adjacent buildings	Debris to ground	Fibre cement sheet	64	84331	Chrysotile, Amosite & Crocidolite Asbestos Detected	<1 m^2	N	G	M	**Medium**		Remove under controlled non-friable asbestos removal conditions by a Class B (non-friable) licensed asbestos removal contractor.
Internal/ external	Windows	Caulking	65	84402	Chrysotile Asbestos Detected	N/A	N	G	L	**Very Low**		Remove windows whole without direct disturbance to caulking under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If scraping out of caulking is undertaken as the removal method, this should be done under friable asbestos controls by a Class A (friable) licensed asbestos removal contractor

Asbestos Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Link connecting Building No.1 to Building No.24												
Exterior/ interior	Windows	Caulking	66	82708	Chrysotile Asbestos Detected	N/A	N	G	L	**Very Low**		Remove windows whole without direct disturbance to caulking under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If scraping out of caulking is undertaken as the removal method, this should be done under friable asbestos controls by a Class A (friable) licensed asbestos removal contractor
Link connecting Building No.1 to Building No.2												
Exterior/ interior	Windows	Black caulking	67	82513	Chrysotile Asbestos Detected	N/A	N	G	L	**Very Low**		Remove windows whole without direct disturbance to caulking under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If scraping out of caulking is undertaken as the removal method, this should be done under friable asbestos controls by a Class A (friable) licensed asbestos removal contractor

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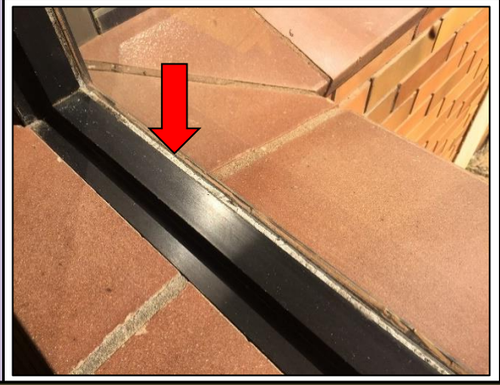
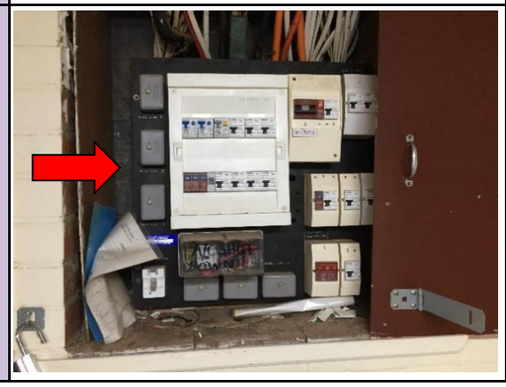
Exterior/ interior	Windows	White caulking	68	82515	Chrysotile Asbestos Detected	N/A	N	G	L	**Very Low**		Remove windows whole without direct disturbance to caulking under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If scraping out of caulking is undertaken as the removal method, this should be done under friable asbestos controls by a Class A (friable) licensed asbestos removal contractor
Link connecting Buildings No.6, No.16, No.17, No.19, No.20, No.28 & No.29												
External, north elevation between buildings No. 16 and No.17	Wall cladding	Fibre cement sheet	69	82590	Chrysotile Asbestos Detected	5 m^2	N	G	L	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, adjacent building No.19	Switchboard	Bituminous backing board	70	Visual observation	Assumed to contain Asbestos	1 unit	N	VG	L	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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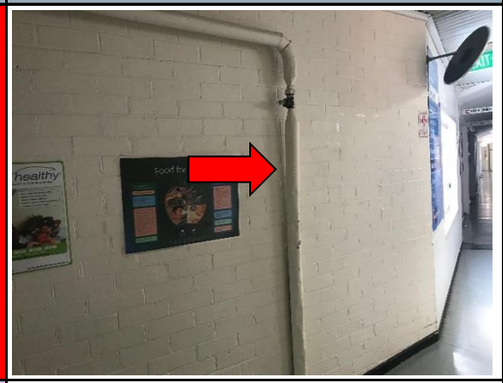
Internal, adjacent building No.19	Pipework	Concealed pipe lagging	71	Refer 84440	Chrysotile & Amosite Asbestos Detected	N/A	Y	F	H	**High**		Remove under controlled friable asbestos removal conditions by a Class A (friable) licensed asbestos removal contractor.
Internal, adjacent building No.19	Bulkhead	Fibre cement sheet	72	84421	Chrysotile Asbestos Detected	2 m^2	N	VG	L	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, adjacent building No.19	Wall lining to both sides of corridor	Fibre cement sheet	73	84423	Chrysotile Asbestos Detected	20 m^2	N	VG	L	**Very Low**		Maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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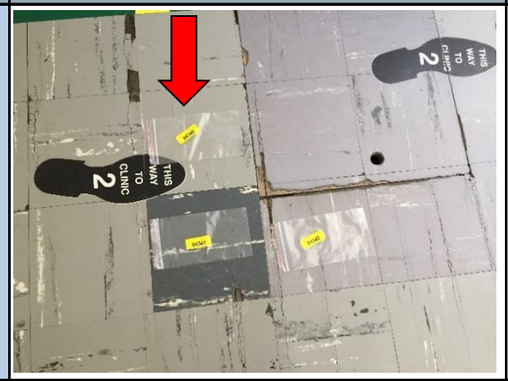
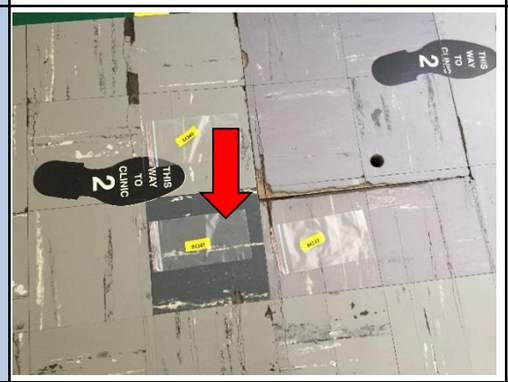
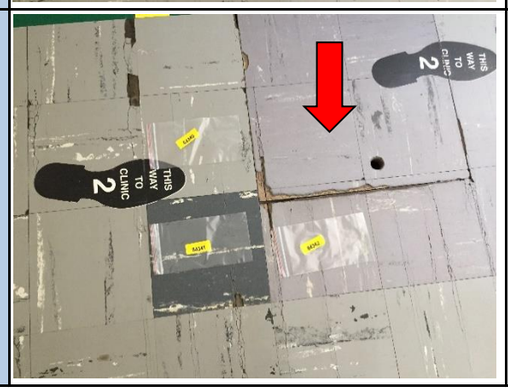
Internal, throughout	Light grey floor covering	Vinyl floor tiles	74	84340	Chrysotile Asbestos Detected	150 m^2	Y	F	L	**Low**		Seal broken or exposed edges and maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, throughout	Black floor covering	Vinyl floor tiles	75	84341	Chrysotile Asbestos Detected	20 m^2	Y	F	L	**Low**		Seal broken or exposed edges and maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, throughout	Blue grey floor covering	Vinyl floor tiles	76	84342	Chrysotile Asbestos Detected	20 m^2	Y	F	L	**Low**		Seal broken or exposed edges and maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.

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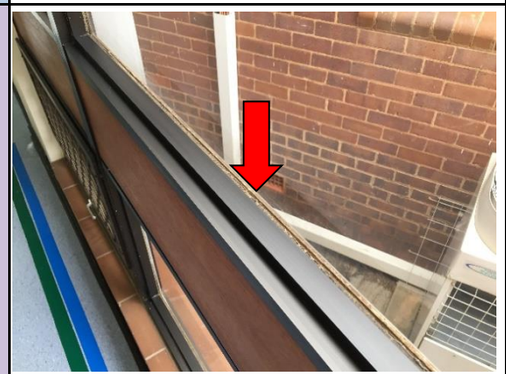
Internal, throughout	Light grey floor covering	Vinyl floor tiles (larger size)	77	84343	Chrysotile Asbestos Detected	20 m^2	Y	F	L	**Low**		Seal broken or exposed edges and maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor.
Internal, throughout	Adhesive to floor tiles	Bituminous mastic	78	84344	Chrysotile Asbestos Detected	200 m^2	Y	F	L	**Low**		Seal broken or exposed edges and maintain in good condition if to remain in-situ. Remove under controlled non-friable asbestos removal conditions prior to disturbance by refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If grinding of adhesive is undertaken as the removal method, this should be done under friable asbestos controls by a Class A (friable) licensed asbestos removal contractor
Internal/ external throughout	Windows	Caulking	79	Refer 82513	Chrysotile Asbestos Detected	N/A	N	G	L	**Very Low**		Assess windows individually to distinguish old (asbestos containing caulking) windows from new. Remove windows whole without direct disturbance to caulking under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If scraping out of caulking is undertaken as the removal method, this should be done under friable asbestos controls by a Class A (friable) licensed asbestos removal contractor

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Non Asbestos-containing Materials												
Building No.1, Main Service Building & Emergency Department												
External, adjacent room 1179	Doorway partition lining	Fibre cement sheet	-	84329	No Asbestos Detected	-	-	-	-	-	-	-
External, north side of building (adjacent Ex.Plant)	Debris to ground	Fibre cement sheet	-	84330	No Asbestos Detected	-	-	-	-	-	-	-
External, main entry and building rear	White wall cladding panels	Fibre cement sheet	-	84326	No Asbestos Detected	-	-	-	-	-	-	-
External, main entry	Awning	Fibre cement sheet	-	84327	No Asbestos Detected	-	-	-	-	-	-	-
External, room 1164	Wall cladding	Fibre cement sheet	-	84328	No Asbestos Detected	-	-	-	-	-	-	-
Internal, LG plantroom	Orange gaskets	Gaskets	-	84465	No Asbestos Detected	-	-	-	-	-	-	-
Internal, LG plantroom	White gaskets type 1	Gaskets	-	84461	No Asbestos Detected	-	-	-	-	-	-	-
Internal, LG plantroom	White gaskets type 2	Gaskets	-	84466	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 1156	Ductwork	Mastic	-	84453	No Asbestos Detected	-	-	-	-	-	-	-
Internal, throughout	Beige lower wall covering	Vinyl sheet	-	84445	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 1155	Red building joint (and associated residue)	Mastic	-	84454	No Asbestos Detected	-	-	-	-	-	-	-

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Internal, throughout	Red building joint	Mastic	-	Refer 84454	No Asbestos Detected	-	-	-	-	-	-	-
Internal, pharmacy and pathology throughout	Olive green floor covering	Vinyl sheeting	-	84428	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 1179	Generator pipe bandage	Woven material	-	69322	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 1144	Single infill panel	Fibre cement sheet	-	84459	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 1145	Partition walls between wet area and office	Fibre cement sheet	-	84460	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 1147	Sterilising unit	Gaskets	-	84457	Chrysotile Asbestos Detected	-	-	-	-	-	-	-
Internal, theatre rooms	Grey wall covering	Vinyl sheeting	-	84443	No Asbestos Detected	-	-	-	-	-	-	-
Internal, theatre rooms	Green floor covering	Vinyl sheeting	-	84444	No Asbestos Detected	-	-	-	-	-	-	-

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Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Asbestos Materials Register

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Building No.2, General Ward Block												
External, throughout	Building join to brickwork	Mastic	-	84325	No Asbestos Detected	-	-	-	-	-	-	-
External, rooftop	HVAC ductwork	Mastic	-	69328	No Asbestos Detected	-	-	-	-	-	-	-
External, rooftop	Waterproofing membrane	Fabric	-	69330	No Asbestos Detected	-	-	-	-	-	-	-
Internal, occasional throughout	Pale green floor covering	Vinyl sheeting	-	84323	No Asbestos Detected	-	-	-	-	-	-	-
Internal, throughout	Windows	Caulking	-	84322	No Asbestos Detected	-	-	-	-	-	-	-
Building No.6, Maternity Unit												
External, throughout	Infill panel above and below windows	Fibre cement sheet	-	82598	No Asbestos Detected	-	-	-	-	-	-	-
External, south fire escape door portico	Walls and ceiling	Fibre cement sheet	-	82597	No Asbestos Detected	-	-	-	-	-	-	-
External, south side subfloor hatch	Hatch panel	Fibre cement sheet	-	82599	No Asbestos Detected	-	-	-	-	-	-	-
External, throughout	Windows	Caulking	-	82600	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 1027	Wall lining	Fibre cement sheet	-	84338	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 4016	Double door lining	Fibre cement sheet	-	84335	No Asbestos Detected	-	-	-	-	-	-	-
Internal, throughout	Painted lower wall vinyl	Vinyl sheeting	-	Refer 84445	No Asbestos Detected	-	-	-	-	-	-	-

Friability: N/A - Not Applicable, N - Non-Friable, Y - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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Asbestos Materials Register

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Building No.16, Doctors Offices												
Internal/ external, throughout	Windows	Caulking	-	82593, 84430	No Asbestos Detected	-	-	-	-	-	-	-
Internal, store adjacent room 1738	Red floor covering	Vinyl sheeting	-	84436	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 1739	Concealed flooring	Vinyl sheeting	-	84433	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 1740	Gaskets to plant	Gaskets	-	84395	No Asbestos Detected	-	-	-	-	-	-	-
Building No.17, Specialist Clinics												
Internal, area 1721	Beige vinyl floor covering	Vinyl sheeting	-	84437	No Asbestos Detected	-	-	-	-	-	-	-
Building No.19, Biomedical												
Internal, entryway	Thin, beige flooring strip	Vinyl sheeting	-	84415	No Asbestos Detected	-	-	-	-	-	-	-
Internal, throughout	Black floor skirting	Vinyl strip	-	84416	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 1712	Ceiling lining	Fibre cement sheet	-	84417	No Asbestos Detected	-	-	-	-	-	-	-
Internal, throughout	Windows	Caulking	-	84418	No Asbestos Detected	-	-	-	-	-	-	-
Building No.20, Dietics												
External, void adjacent to building	Lower wall cladding	Fibre cement sheet	-	84332	No Asbestos Detected	-	-	-	-	-	-	-

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
External, room 6001	Wall cladding	Fibre cement sheet	-	84334	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 6001	Windows	Caulking	-	84412, 84413	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 6003	Adhesive to tiles	Adhesive	-	84405, 84406	No Asbestos Detected	-	-	-	-	-	-	-
Building No.22, Medical Imaging												
External, rear entry	Awning	Fibre cement sheet	-	82587	No Asbestos Detected	-	-	-	-	-	-	-
External, rear entry	Landing panel	Fibre cement sheet	-	82588	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 3013	Wall lining	Fibre cement sheet	-	84426	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 3014	Wall lining	Fibre cement sheet	-	Refer 84426	No Asbestos Detected	-	-	-	-	-	-	-
Building No. 23, Quality												
External, sub floor	Packers	Fibre cement sheet	-	82707	No Asbestos Detected	-	-	-	-	-	-	-

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Building No.24, Paediatrics												
External, south elevation	Eaves	Fibre cement sheet	-	82522	No Asbestos Detected	-	-	-	-	-	-	-
External, entry to room 3040	Infill panel above door	Fibre cement sheet	-	82523	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 3018	Window	Caulking	-	82518	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 3047	Partition wall	Fibre cement sheet	-	82519	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 3011	Partition wall	Fibre cement sheet	-	Refer 82519	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 3047	Green floor covering	Vinyl floor sheet	-	82520	No Asbestos Detected	-	-	-	-	-	-	-
Internal, room 3039	Black floor covering	Waterproofing membrane material	-	82525	No Asbestos Detected	-	-	-	-	-	-	-
Building No.25, TRACS												
External, throughout	Eaves	Fibre cement sheet	-	82702	No Asbestos Detected	-	-	-	-	-	-	-
External, throughout	Gable verge lining	Fibre cement sheet	-	82703	No Asbestos Detected	-	-	-	-	-	-	-
External, switchbox	MDI unit	Mastic	-	82524	No Asbestos Detected	-	-	-	-	-	-	-
Interior, room 2109	Wall lining	Fibre cement sheet	-	82704	No Asbestos Detected	-	-	-	-	-	-	-

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Asbestos Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Interior, rooms 2105, 2107 & 2108	Wall lining	Fibre cement sheet	-	Refer 82704	No Asbestos Detected	-	-	-	-	-	-	-
Interior, room 2106	Beige floor covering	Vinyl floor sheet	-	82706	No Asbestos Detected	-	-	-	-	-	-	-
Building No.29, Kiosk												
Internal, throughout	Concealed flooring	Vinyl sheet		84404	No Asbestos Detected	-	-	-	-	-	-	-
Link connecting Building No.1 to No. 24												
Exterior	Windows	Caulking	-	82708	No Asbestos Detected	-	-	-	-	-	-	-
Exterior	Building join	Bitumastic	-	82512	No Asbestos Detected	-	-	-	-	-	-	-
Interior	Windows	Caulking	-	82511	No Asbestos Detected	-	-	-	-	-	-	-
Interior	Black floor covering	Vinyl flooring sheet	-	82517	No Asbestos Detected	-	-	-	-	-	-	-
Link connecting Building No.1 to No. 2												
Exterior	Building join	Bitumastic	-	Refer 82512	No Asbestos Detected	-	-	-	-	-	-	-
Interior	Black floor covering	Vinyl flooring sheet	-	Refer 82517	No Asbestos Detected	-	-	-	-	-	-	-
Interior	Floor skirting	Vinyl strip	-	82512	No Asbestos Detected	-	-	-	-	-	-	-
Interior	Windows	Caulking (dark)	-	82513	No Asbestos Detected	-	-	-	-	-	-	-

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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Friablitiy	Condition	Accessibility	Action Rating	Photograph	Recommendations
Interior	Windows	Caulking (light)	-	82515	No Asbestos Detected	-	-	-	-	-	-	-
Link connecting Buildings No.16, No.17, No.19, No.20, No.28 & No.29												
Internal, adjacent building No.19	Patch to infill panel	Fibre cement sheet	-	84422	No Asbestos Detected	-	-	-	-	-	-	-
External, between building No.17 and No.19	Wall cladding	Fibre cement sheet	-	84442	No Asbestos Detected	-	-	-	-	-	-	-

Friability: N/A - Not Applicable, N - Non-Friable, Y - Friable
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Hazardous Materials Register

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Surveyor: Matt Hemingway & Jacob Iskenderian	**Assessment Type:** Pre-Demolition Hazmat Assessment	**Date:** 19-08-2020
Site Contact: Frank Portolesi	**Site / Location**: Griffith Hospital	**Review Date:** N/A

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Lead-based paint (LBP)													
Building No.1, Main Service Building & Emergency Department													
Internal, room 1147	Walls and ceiling	Cream paint system	1	84458	<0.1% Lead content	30m^2	U	Av	N/A	L	**Low**		RESULT <0.1% lead content, not lead-containing paint as described in AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings.
Building No.2, General Ward Block													
Internal, sub corridor plantroom	Switchboards	Deep orange paint system	2	69332	<0.1% Lead content	N/A	U	Av	N/A	L	**Low**		RESULT <0.1% lead content, not lead-containing paint as described in AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings.

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Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Building No.16, Doctors Offices													
External, throughout	Downpipes and trim	Maroon paint system	3	Refer 82521	>0.1% Lead content	10 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works.
External, throughout	Window frames, skirting and eaves	White paint system	4	82589	>0.1% Lead content	10 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works.
External, room 1739	Wall cladding	Pink paint system	5	82592	>0.1% Lead content	15 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works.

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
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Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, room 1736	Ceiling	White paint system	6	84435	>0.1% Lead content	20 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works.
Internal, room 1738	Walls and ceiling	Beige paint system	7	84434	<0.1% Lead content	15 m²	U	Av	N/A	L	**Low**		RESULT <0.1% lead content, not lead-containing paint as described in AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings.
Building No.17, Specialist Clinic													
External, throughout	Windows, trims and eaves	White paint system	8	84441	>0.1% Lead content	20 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Lead paint in residential, public and commercial buildings prior to renovation or demolition works.

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, throughout	Ceiling	White paint system	9	Refer 84435	>0.1% Lead content	20 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Lead paint in residential, public and commercial buildings prior to renovation or demolition works.
Internal, room 1724	Timber ceiling	White paint system	10	84420	<0.1% Lead content	30 m²	U	Av	N/A	L	**Low**		RESULT <0.1% lead content, not lead-containing paint as described in AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings.
Building No.19, Biomed													
Internal, throughout	Ceiling	White paint system	11	Refer 84407	<0.1% Lead content	30 m²	U	Av	N/A	L	**Low**		RESULT <0.1% lead content, not lead-containing paint as described in AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings.

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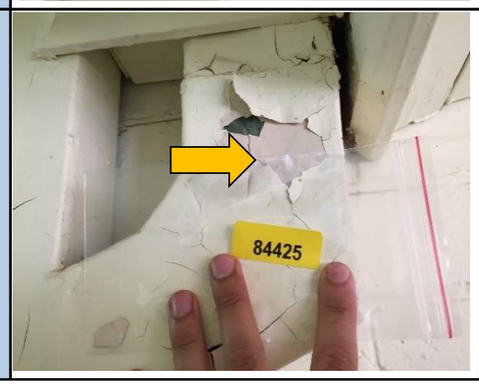
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, corridor adjacent to building	Timber ceiling	White paint system	12	84420	<0.1% Lead content	30 m²	U	Av	N/A	L	**Low**		RESULT <0.1% lead content, not lead-containing paint as described in AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings.
Internal, corridor adjacent to building and room 1701	Walls and ceiling	Yellow paint system	13	84424	>0.1% Lead content	15 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works.
Internal, corridor adjacent to building and room 1701	Walls and ceiling	Beige undercoat	14	84425	>0.1% Lead content	15 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works.

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Building No.20, Dietics													
External, throughout	Trim and lower walls	Maroon paint system	15	Refer 82521	>0.1% Lead content	1 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works.
Internal, room 6001	Windows	Blue paint system	16	84409	>0.1% Lead content	1 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works.
Internal, room 6001	Windows	White paint system	17	84410	>0.1% Lead content	1 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works.

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, room 6003	Ceiling	White paint system	18	84407	<0.1% Lead content	30 m²	U	Av	N/A	L	**Low**		RESULT <0.1% lead content, not lead-containing paint as described in AS/NZS 4361.2:2017 Guide to hazardous paint management - Part 2: Lead paint in residential, public and commercial buildings.
Building No.24, Paediatrics													
External	Guttering, pipes and trim	Maroon paint system	19	82521	>0.1% Lead content	10 m²	U	Av	N/A	L	**Low**		RESULT >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS/NZS 4361.2:2017 Guide to hazardous paint management - Lead paint in residential, public and commercial buildings prior to renovation or demolition works.

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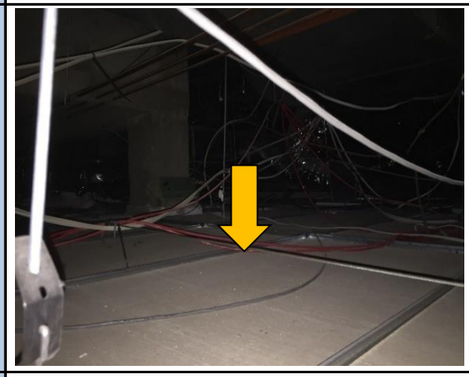
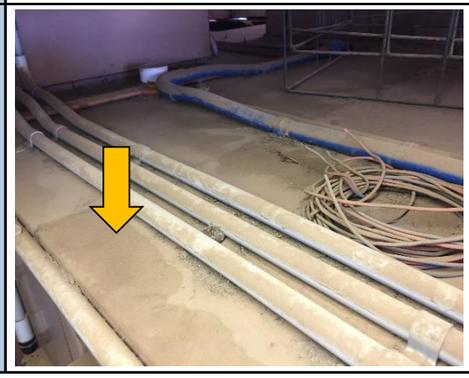
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Lead-containing Dust (LCD)													
Building No.1, Main Service Building & Emergency Department													
Internal, LG plantrooms	Throughout	Dust to surfaces	20	69321	720 mg/kg lead content	150 m²	U	P	F	L	**Low**		Results is >300 mg/kg guideline for residential or childcare sites based on the soil contamination criteria of the *National Environment Protection Measure 2013* . Due to the non homogenous nature of lead in dust contamination and the age of the building, undertake task specific risk assessment and remove under controlled conditions in accordance with AS 4361.2, Guide to Hazardous Paint Management - 2017 Part 2: Public, residential and commercial buildings prior to disturbance
Internal, ground	Ceiling cavity	Dust to surfaces	21	84448	64 mg/kg lead content	1000 m²	U	P	F	L	**Low**		Results is <300 mg/kg guideline for residential or childcare sites based on the soil contamination criteria of the *National Environment Protection Measure 2013* . Due to the non homogenous nature of lead in dust contamination and the age of the building, undertake task specific risk assessment and remove under controlled conditions in accordance with AS 4361.2, Guide to Hazardous Paint Management - 2017 Part 2: Public, residential and commercial buildings prior to disturbance
Internal, rooftop plantroom	Throughout	Dust to surfaces	22	69324	140 mg/kg lead content	300 m²	U	P	F	L	**Low**		Results is <300 mg/kg guideline for residential or childcare sites based on the soil contamination criteria of the *National Environment Protection Measure 2013* . Due to the non homogenous nature of lead in dust contamination and the age of the building, undertake task specific risk assessment and remove under controlled conditions in accordance with AS 4361.2, Guide to Hazardous Paint Management - 2017 Part 2: Public, residential and commercial buildings prior to disturbance

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Building No.2, General Ward Block													
Internal, level 1	Ceiling cavity	Dust to surfaces	23	69331	23 mg/kg lead content	300 m²	U	P	F	L	**Low**		Results is <300 mg/kg guideline for residential or childcare sites based on the soil contamination criteria of the *National Environment Protection Measure 2013* . Due to the non homogenous nature of lead in dust contamination and the age of the building, undertake task specific risk assessment and remove under controlled conditions in accordance with AS 4361.2, Guide to Hazardous Paint Management - 2017 Part 2: Public, residential and commercial buildings prior to disturbance
Building No.6, Maternity Unit													
Internal, throughout	Ceiling cavity	Dust to surfaces	24	84336	1,400 mg/kg lead content	300 m²	U	P	F	L	**Low**		Results is >300 mg/kg guideline for residential or childcare sites based on the soil contamination criteria of the *National Environment Protection Measure 2013* . Due to the non homogenous nature of lead in dust contamination and the age of the building, undertake task specific risk assessment and remove under controlled conditions in accordance with AS 4361.2, Guide to Hazardous Paint Management - 2017 Part 2: Public, residential and commercial buildings prior to disturbance
Building No.20, Dietics (and surrounding buildings No.16, No.17, No.19, No.28 & No.29)													
Internal, throughout	Ceiling cavity	Dust to surfaces	25	84411	200 mg/kg lead content	500 m²	U	P	F	L	**Low**		Results is <300 mg/kg guideline for residential or childcare sites based on the soil contamination criteria of the *National Environment Protection Measure 2013* . Due to the non homogenous nature of lead in dust contamination and the age of the building, undertake task specific risk assessment and remove under controlled conditions in accordance with AS 4361.2, Guide to Hazardous Paint Management - 2017 Part 2: Public, residential and commercial buildings prior to disturbance

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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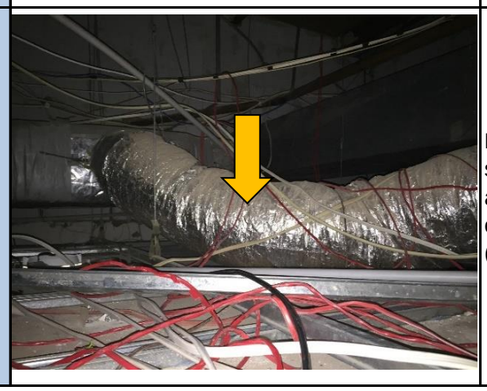
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Building No.24, Paediatrics													
Internal	Plant room/ ceiling cavity	Dust to surfaces	26	82526	43 mg/kg lead content	400 m²	U	P	F	L	**Low**		Results is <300 mg/kg guideline for residential or childcare sites based on the soil contamination criteria of the *National Environment Protection Measure 2013* . Due to the non homogenous nature of lead in dust contamination and the age of the building, undertake task specific risk assessment and remove under controlled conditions in accordance with AS 4361.2, Guide to Hazardous Paint Management - 2017 Part 2: Public, residential and commercial buildings prior to disturbance
Building No.25, TRACS													
Internal	Ceiling cavity	Dust to surfaces	27	82521	270 mg/kg lead content	300 m²	U	P	F	L	**Low**		Results is <300 mg/kg guideline for residential or childcare sites based on the soil contamination criteria of the *National Environment Protection Measure 2013* . Due to the non homogenous nature of lead in dust contamination and the age of the building, undertake task specific risk assessment and remove under controlled conditions in accordance with AS 4361.2, Guide to Hazardous Paint Management - 2017 Part 2: Public, residential and commercial buildings prior to disturbance
Links throughout													
Internal	Ceiling cavities	Dust to surfaces	28	(No Access)	Suspected lead containing dust	N/A	U	P	F	L	**Low**	Suspected only, not observed	Due to the non homogenous nature of lead in dust contamination and the age of the building, undertake task specific risk assessment and remove under controlled conditions in accordance with AS 4361.2, Guide to Hazardous Paint Management - 2017 Part 2: Public, residential and commercial buildings prior to disturbance

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Synthetic Mineral Fibre (SMF)													
Building No.1, Main Service Building & Emergency Department													
External, rooftop	Fixed ductwork	Insulation lining	29	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, sporadic throughout	Ceiling	Compressed ceiling tiles	30	Visual Observation	Suspected SMF	50 m^2	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, ceiling cavities	Ductwork (fixed and flexible)	Insulation lining	31	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Hazardous Materials Register

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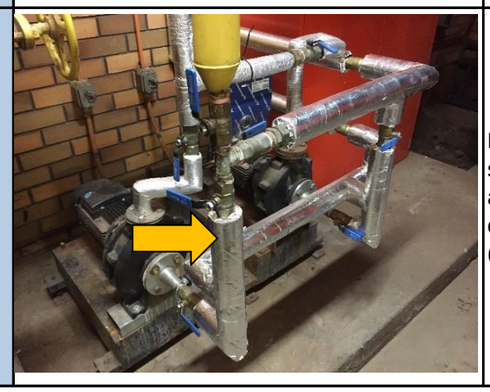
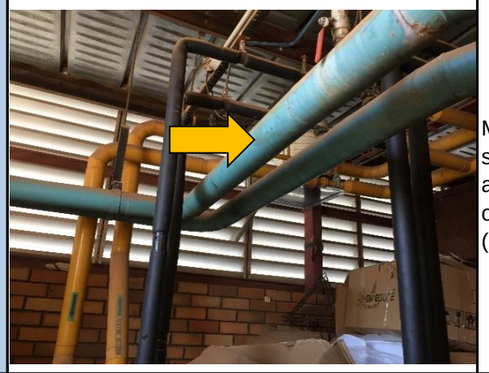
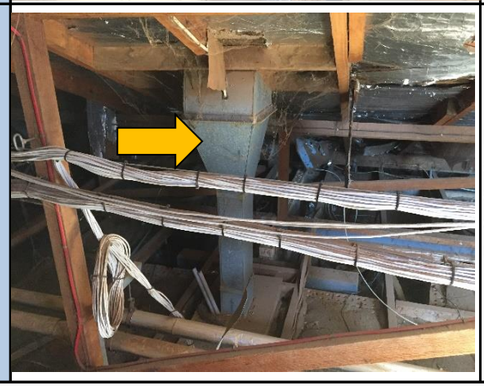
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, ceiling cavities	Pipe insulation	Internal insulation	32	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, ceiling cavity level 1	Batting	Insulation	33	Visual Observation	Suspected SMF	N/A	U	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, LG plantrooms	Pipe insulation	Internal insulation	34	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, rooftop plantroom	Pipe insulation	Internal insulation	35	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.2, General Ward Block													
Internal, rooftop plant area	Pipework insulation	Internal insulation	36	Visual Observation	Suspected SMF	N/A	U	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, ceiling cavity level 1	Ductwork (fixed and flexible)	Insulation lining	37	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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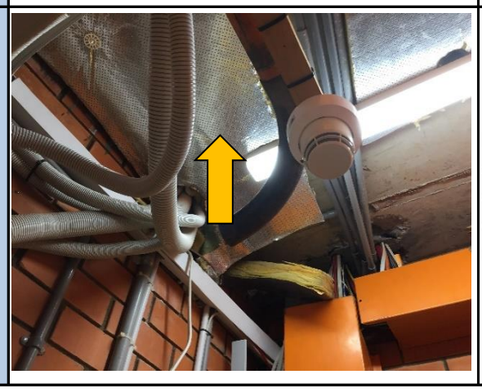
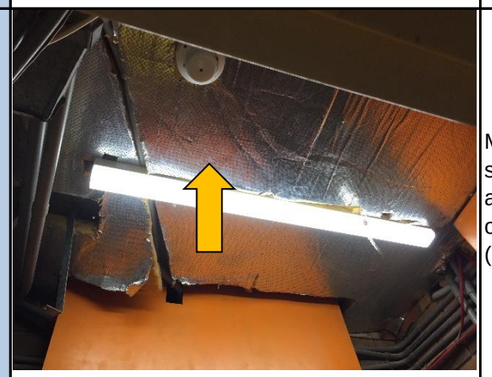
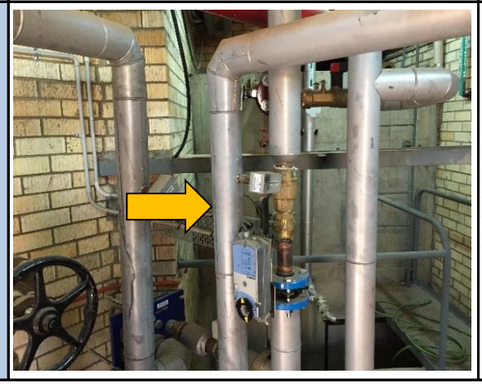
Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, ceiling cavity level 1	Pipe insulation	Internal insulation	38	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, ceiling cavity level 1	Batting	Insulation	39	Visual Observation	Suspected SMF	N/A	U	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, room 2002	Foil lined ceiling sarking	Insulation	40	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, room 2026	Foil lined ceiling and upper wall sarking	Insulation	41	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, room 2126	Foil lined ceiling sarking	Insulation	42	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, sub corridor plantroom	Pipe insulation	Internal insulation	43	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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Hazardous Materials Register

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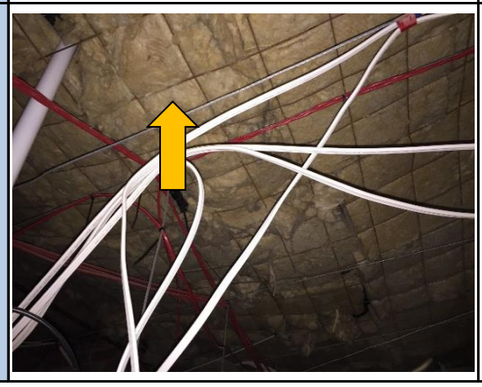
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, sub corridor plantroom	Hot water unit	Internal insulation	44	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.4, Nurse Education													
External	Hot water unit	Internal insulation	45	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, ceiling cavity	Batting	Insulation	46	Suspected	Suspected SMF	N/A	U	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Building No.5, Dentistry													
Internal, ceiling cavity	Batting	Insulation	47	Suspected	Suspected SMF	N/A	U	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.6, Maternity Unit													
Internal, throughout	Ceiling	Compressed ceiling tiles	48	Visual Observation	Suspected SMF	50 m^2	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, ceiling cavity	Batting	Insulation	49	Visual Observation	Suspected SMF	N/A	U	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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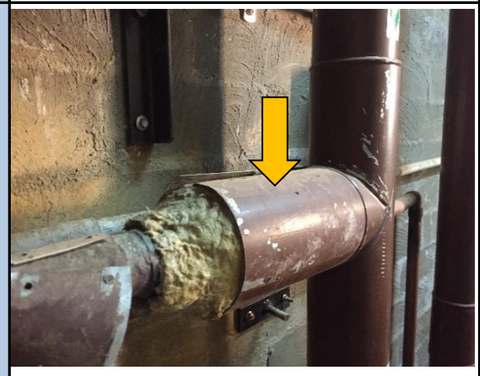
Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Building No.16, Doctors Offices													
Internal, room 1740	Hot water unit	Internal insulation	50	Visual Observation	Suspected SMF	2 units	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, room 1740	Pipework insulation	Internal insulation	51	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, ceiling cavity	Batting	Insulation	52	Suspected	Suspected SMF	N/A	U	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, ceiling cavity	Ductwork (fixed and flexible)	Insulation lining	53	Suspected	Suspected SMF	N/A	S	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.17, Specialist Clinics													
External, sub floor	Pipework insulation	Internal insulation	54	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, ceiling cavity	Ductwork (fixed and flexible)	Insulation lining	55	Visual Observation	Suspected SMF	N/A	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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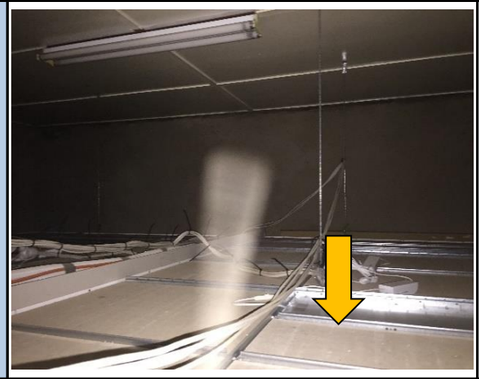
Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, ceiling cavity	Batting	Insulation	56	Visual Observation	Suspected SMF	N/A	U	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.19, Biomed													
Internal, rooms 1802, 1703, 1704	Ceiling	Compressed ceiling tiles	57	Visual Observation	Suspected SMF	50 m^2	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.20 Dietics													
Internal, ceiling cavity	Batting	Insulation	58	Suspected	Suspected SMF	N/A	U	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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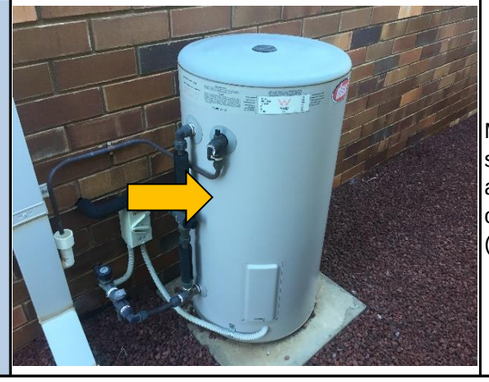
Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, ceiling cavity	Ductwork (fixed and flexible)	Insulation lining	59	Suspected	Suspected SMF	N/A	S	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.22, Medical Imaging													
Internal, ceiling cavity	Batting	Insulation	60	Suspected	Suspected SMF	N/A	U	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
External, west elevation	Hot water unit	Internal insulation	61	Visual Observation	Suspected SMF	1 unit	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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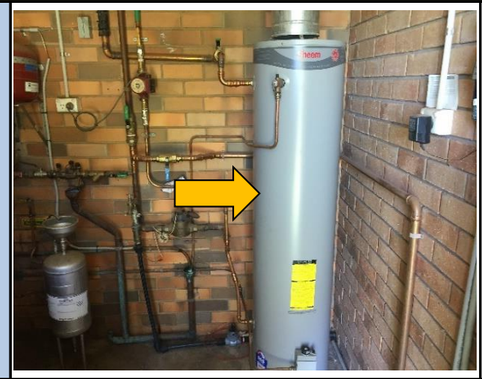
Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Building No.24, Paediatrics													
Interior, room 3002	Hot water unit	Internal insulation	62	Visual Observation	Suspected SMF	1 unit	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Interior, room 3039	Hot water unit	Internal insulation	63	Visual Observation	Suspected SMF	1 unit	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Interior, ceiling cavity	Foil lined roof sarking	Insulation	64	Visual Observation	Suspected SMF	50 m^2	S	Av	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
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Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Interior, ceiling cavity	Ductwork	Internal insulation	65	Visual Observation	Suspected SMF	N/A	S	Av	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Interior, ceiling cavity	Batting	Insulation	66	Visual Observation	Suspected SMF	50 m^2	S	Av	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.25, TRACS													
Exterior, room 2106	Hot water unit	Internal insulation	67	Visual Observation	Suspected SMF	1 unit	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Interior, ceiling cavity	Ductwork	Internal insulation	68	Visual Observation	Suspected SMF	N/A	S	Av	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Interior, ceiling cavity	Batting	Insulation	69	Visual Observation	Suspected SMF	30 m^2	S	Av	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.26, Relatives Overnight Stay													
External, south elevation	Hot water unit	Internal insulation	70	Visual Observation	Suspected SMF	1 unit	S	G	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
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Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Building No.27, Staff Accommodation Units													
Internal, ceiling cavity	Batting	Insulation	71	Visual Observation	Suspected SMF	300 m^2	U	Av	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, ceiling cavity	Foil lined roof sarking	Insulation	72	Visual Observation	Suspected SMF	30 m^2	S	Av	F	L	**Low**		Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.28, Office													
Internal, ceiling cavity	Batting	Insulation	73	Suspected	Suspected SMF	N/A	U	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Internal, ceiling cavity	Ductwork (fixed and flexible)	Insulation lining	74	Suspected	Suspected SMF	N/A	S	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Building No.29, Kiosk													
Internal, ceiling cavity	Batting	Insulation	75	Suspected	Suspected SMF	N/A	U	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].
Internal, ceiling cavity	Ductwork (fixed and flexible)	Insulation lining	76	Suspected	Suspected SMF	N/A	S	G	F	L	**Low**	Suspected only, not observed	Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Hazardous Materials Register

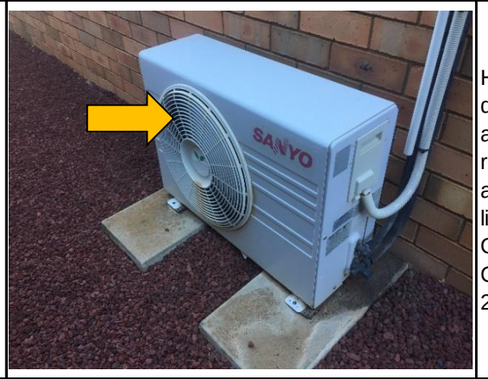
Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Ozone Depleting Substance (ODS)													
Building No.1, Main Service Building & Emergency Department													
External, rooftop	'Ultimate' AC unit	Unknown refrigerant	77	Visual Observation	ODS Refrigerant	1 unit	-	-	-	-	-		No data was visible at the time of the assessment. Confirm status of suspected ozone depleting substances identified in the assessment.
External, adjacent main entrance	'Hitachi' AC unit'	R22 refrigerant	78	Visual Observation	ODS Refrigerant	1 unit	-	-	-	-	-		Hydrochlorofluorocarbon (HCFC), ozone depleting substances identified in the assessment that require removal during refurbishment or demolition works should be appropriately decanted and disposed of by a licensed contractor in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012.
Building No.2, General Ward Block													
External, room 2002	'LG' AC unit'	R22 refrigerant	79	Visual Observation	ODS Refrigerant	1 unit	-	-	-	-	-		Hydrochlorofluorocarbon (HCFC), ozone depleting substances identified in the assessment that require removal during refurbishment or demolition works should be appropriately decanted and disposed of by a licensed contractor in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012.

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Building No.6, Maternity Unit													
External, north elevation	'Arkair' AC unit'	R22 refrigerant	80	Visual Observation	ODS Refrigerant	1 unit	-	-	-	-	-		Hydrochlorofluorocarbon (HCFC), ozone depleting substances identified in the assessment that require removal during refurbishment or demolition works should be appropriately decanted and disposed of by a licensed contractor in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012.
External, rooftop	Inaccessible units	Unknown refrigerant	81	Visual Observation	ODS Refrigerant	10 units	-	-	-	-	-		No data was visible at the time of the assessment. Confirm status of suspected ozone depleting substances identified in the assessment.
Building No.16, Doctors Offices													
External, north and west elevations	'Fujitsu' AC unit'	R22 refrigerant	82	Visual Observation	ODS Refrigerant	2 unit	-	-	-	-	-		Hydrochlorofluorocarbon (HCFC), ozone depleting substances identified in the assessment that require removal during refurbishment or demolition works should be appropriately decanted and disposed of by a licensed contractor in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012.

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Building No.22, Medical Imaging													
External, east and west elevations	'Fujitsu' AC unit'	R22 refrigerant	83	Visual Observation	ODS Refrigerant	2 units	-	-	-	-	-		Hydrochlorofluorocarbon (HCFC), ozone depleting substances identified in the assessment that require removal during refurbishment or demolition works should be appropriately decanted and disposed of by a licensed contractor in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012.
External, west elevation	'Sanyo AC unit'	R22 refrigerant	84	Visual Observation	ODS Refrigerant	1 unit	-	-	-	-	-		Hydrochlorofluorocarbon (HCFC), ozone depleting substances identified in the assessment that require removal during refurbishment or demolition works should be appropriately decanted and disposed of by a licensed contractor in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012.
External, sub floor	Inaccessible units/ information labels	Unknown refrigerant	85	Visual Observation	ODS Refrigerant	5 units	-	-	-	-	-		No data was visible at the time of the assessment. Confirm status of suspected ozone depleting substances identified in the assessment.

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

Hazardous Materials Register

Primary Location	Secondary Location	Description	Photograph No.	Sample Number	Sample Results	Approx. Quantity	Surface Treatment	Extent of Damage	Friability	Likelihood of Disturbance	Action Rating	Photograph	Recommendations
Polychlorinated Biphenyls (PCB)													
Throughout, all areas													
Throughout	Operational open and cased light fittings	Capacitors	86	Visual Observation	Suspected PCB capacitors	Multiple	-	-	-	-	-		PCB-containing capacitors are suspected due to age & appearance of electrical fittings. Remove and dispose of in accordance with the Polychlorinated Biphenyls Management Plan, Revised Edition April 2003.

Friability: N/A - Not Applicable, N - Non-Friable, F* - Friable upon disturbance, F - Friable
Condition: VG - Very Good, G - Good, F - Fair, P - Poor
Accessibility: VL - Very Low, L - Low, M - Medium, H - High

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Appendix B: Laboratory Analysis Certificate

Bulk Identification Report

Job No: 754-SYDEN Griffith Hospital 24032020
Client: CBRE
Client Address: 1 Noorebar Ave,
Griffith NSW 2680

Contact: Brian Coughlin
E-mail: Brian.Coughlin@cbre.com.au
Date Sampled: 16/03/2020
Date Printed: 24/03/2020
Sampled By: Matt Hemingway
Site: Griffith Hospital

Accredited for compliance with ISO/IEC 17025 - Testing
Accreditation No:2220
Corporate Site No:16909

Please note: In accepting the results, you (the client) agree that Coffey Services Australia Pty Ltd does not accept any responsibility for the sample submitted in relation to its source and is not liable for any works undertaken at site based on the analytical data provided. Only the samples submitted for analysis have been considered in presenting these results. Should any other material suspected to contain asbestos be found at the site, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.

Test Method: **Asbestos in Bulk Samples and Non-homogenous Material**
Coffey analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Coffey's NATA approved SOP WILAB1 sample retention periods are set at 1 month (no asbestos detected) and 3 months (asbestos detected).

Total Samples: **19**

Matthew Tang
Approved Identifier

Patricy Cortes
Approved Signatory

Sample No.	Location & Description	Sample Size	Results
82702	Building 25: EXT, throughout, eaves, FCS - Beige layered fibre cement sheet material	~ 21 x 18 x 4 mm	No asbestos fibres detected Organic fibres detected
82703	Building 25: EXT, throughout, gable verge lining, FCS - Beige layered fibre cement sheet material	~ 17 x 16 x 10 mm	No asbestos fibres detected Organic fibres detected
82704	Building 25: INT, room 2109, wall lining, FCS - Beige layered fibre cement sheet material	~ 10 x 9 x 4 mm	No asbestos fibres detected Organic fibres detected
82706	Building 25: INT, room 2106, beige floor covering, VFS - Beige vitreous semi-flexible vinyl tile & amber adhesive	~ 70 x 20 x 4 mm	No asbestos fibres detected Synthetic mineral fibres detected
82524	Building 25: EXT, electrical switchbox, MDI unit, mastic to glass - Black sticky mastic material	~ 8 x 7 x 2 mm	No asbestos fibres detected Organic fibres detected
82518	Building 24, INT, room 3018, window caulking - Grey rubbery mastic material	~ 11 x 9 x 2 mm	No asbestos fibres detected
82519	Building 24, INT, rooms 3011 & 3047, partition walls, FCS - Beige fibre cement sheet material	~ 7 x 6 x 3 mm	No asbestos fibres detected Organic fibres detected
82520	Building 24, INT, room 3047, green floor covering, VFS - Green semi-flexible vinyl tile & amber adhesive	~ 15 x 10 x 4 mm	No asbestos fibres detected
82522	Building 24, EXT, eaves to south elevation, FCS - Beige layered fibre cement sheet material	~ 15 x 14 x 4 mm	No asbestos fibres detected Organic fibres detected
82523	Building 24, EXT, room 3040, infil panel above door, FCS - Beige layered fibre cement sheet material	~ 10 x 7 x 4 mm	No asbestos fibres detected Organic fibres detected
82525	Building 24, INT, room 3039, black waterproofing membrane to floor - Black rubbery membrane sheet material	~ 39 x 20 x 2 mm	No asbestos fibres detected

Sample No.	Location & Description	Sample Size	Results
82707	Building 23, EXT, sub floor packers, FCS - Beige layered fibre cement sheet material	~ 10 x 8 x 6 mm	No asbestos fibres detected Organic fibres detected
82708	Link Buildings 24 - 1, EXT, window caulking - Brown soft mastic material	~ 21 x 16 x 3 mm	**Chrysotile (white asbestos) detected**
82511	Link Buildings 24 - 1, INT, window caulking - Black soft mastic material	~ 12 x 11 x 2 mm	No asbestos fibres detected Organic fibres detected
82512	Link Buildings 24 - 1, EXT, black bituminous building join - Black sticky bituminous material	~ 23 x 14 x 4 mm	No asbestos fibres detected Organic fibres detected
82517	Link Buildings 24 - 1, INT, black floor covering, VFS - Black semi-flexible vinyl tile & amber adhesive	~ 24 x 6 x 4 mm	No asbestos fibres detected
82513	Link between Buildings 1 - 2, INT, dark window caulking - Grey hardened mastic material	~ 9 x 8 x 3 mm	**Chrysotile (white asbestos) detected**
82514	Link between Buildings 1 - 2, INT, black skirting, vinyl strips - Black semi-flexible vinyl material & amber adhesive	~ 41 x 4 x 3 mm	No asbestos fibres detected
82515	Link between Buildings 1 - 2, INT, light window caulking - Grey hardened mastic material	~ 14 x 12 x 3 mm	**Chrysotile (white asbestos) detected**

Bulk Identification Report

Job No: 754-SYDEN273529 Griffith Base Hospital 25082020
Client: CBRE
Client Address: Level 21, 363 George Street,
Sydney NSW 2000

Contact: Fintan O'Dwyer
E-mail: Fintan.Odwyer@cbre.com.au
Date Sampled: 18/08/2020
Date Printed: 1/09/2020
Sampled By: Matthew Hemingway & Jake Iskenderian
Site: Griffith Base Hospital

Accredited for compliance with ISO/IEC 17025 - Testing
Accreditation No:2220
Corporate Site No:16909

Please note: In accepting the results, you (the client) agree that Coffey Services Australia Pty Ltd does not accept any responsibility for the sample submitted in relation to its source and is not liable for any works undertaken at site based on the analytical data provided. Only the samples submitted for analysis have been considered in presenting these results. Should any other material suspected to contain asbestos be found at the site, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.

Test Method: **Asbestos in Bulk Samples and Non-homogenous Material**
Coffey analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Coffey's NATA approved SOP WILAB1 sample retention periods are set at 1 month (no asbestos detected) and 3 months (asbestos detected).

Total Samples: **96**

Matthew Tang
Approved Identifier

Patricy Cortes
Approved Signatory

Sample No.	Location & Description	Sample Size	Results
69318	Building 1, interior, LG plantroom, red gasket to pipework - Red fibrous gasket material	~ 12 x 11 x 3 mm	**Chrysotile (white asbestos) detected**
69319	Building 1, interior, LG plantroom, exposed gasket to red pipework - Red fibrous gasket material	~ 24 x 21 x 3 mm	**Chrysotile (white asbestos) detected**
69320	Building 1, interior, 1165, bituminous backing board - Black crumbly bituminous board material	~ 10 x 9 x 3 mm	**Chrysotile (white asbestos) detected**
69322	Building 1, interior, 1179, generator pipe bandage, woven SMF - White vitreous fibrous insulation material	~ 12 x 11 x 2 mm	No asbestos fibres detected Synthetic mineral fibres detected
69323	Building 1, exterior, rooftop plantroom, mastic to HVAC plant - Grey sticky mastic material	~ 30 x 10 x 4 mm	**Chrysotile (white asbestos) detected**
69325	Building 2, interior, subfloor network, sporadic FCS debris - Grey compressed fibre cement sheet material	~ 90 x 65 x 5 mm	**Chrysotile (white asbestos) detected**
69326	Building 2, interior, subfloor network, black building join to brickwork - Black hardened mastic material	~ 45 x 18 x 10 mm	**Chrysotile (white asbestos) detected**
69328	Building 2, exterior, rooftop HVAC ductwork, mastic - Grey sticky mastic material	~ 35 x 5 x 2 mm	**Chrysotile (white asbestos) detected**
69329	Building 2, exterior, rooftop, verge lining, FCS - Grey compressed fibre cement sheet material	~ 32 x 18 x 5 mm	**Chrysotile (white asbestos) detected**
69330	Building 2, exterior, rooftop, waterproofing membrane - Black rubbery bituminous membrane material	~ 27 x 24 x 3 mm	No asbestos fibres detected
69332	Building 2, interior, fire hose cupboard next to 2105, ceiling, FCS - Beige layered fibre cement sheet material	~ 12 x 11 x 3 mm	**Chrysotile (white asbestos) detected**

Sample No.	Location & Description	Sample Size	Results
82587	Building 22, exterior, rear entry awning, FCS - Beige layered fibre cement sheet material	~ 7 x 6 x 3 mm	No asbestos fibres detected Organic fibres detected
82588	Building 22, exterior, rear entry landing panel, FCS - Beige layered fibre cement sheet material	~ 97 x 45 x 10 mm	No asbestos fibres detected Organic fibres detected
82590	Link between Building 16 & 17, exterior, cladding, FCS - White painted beige layered fibre cement sheet material	~ 19 x 15 x 4 mm	**Chrysotile (white asbestos) detected** **Organic fibres detected**
82591	Building 16, exterior between building 16 and 6, debris, FCS - Grey compressed fibre cement sheet material	~ 37 x 34 x 5 mm	**Chrysotile (white asbestos) detected**
82593	Building 16, exterior, window caulking - Beige hardened mastic material	~ 42 x 21 x 4 mm	No asbestos fibres detected
82594	Building 16, exterior, panels to exterior of file room, FCS - Grey compressed fibre cement sheet material	~ 15 x 11 x 4 mm	**Chrysotile (white asbestos) detected**
82595	Building 16, exterior, eaves to north and east elevations, FCS - White painted grey compressed fibre cement sheet material	~ 31 x 27 x 4 mm	**Chrysotile (white asbestos) detected** **Amosite (brown asbestos) detected**
82596	Building 6, exterior, eaves throughout, FCS - White painted grey compressed fibre cement sheet material	~ 37 x 25 x 5 mm	**Chrysotile (white asbestos) detected** **Amosite (brown asbestos) detected**
82597	Building 6, exterior, south fire escape door portico walls and ceiling, FCS - Beige layered fibre cement sheet material	~ 9 x 7 x 3 mm	No asbestos fibres detected Organic fibres detected
82598	Building 6, exterior, infill panel above/below windows, FCS - Green painted beige layered fibre cement sheet material	~ 9 x 6 x 3 mm	No asbestos fibres detected Organic fibres detected
82599	Building 6, exterior, south side, sub floor hatch panel, FCS - Beige layered fibre cement sheet material	~ 13 x 11 x 3 mm	No asbestos fibres detected Organic fibres detected
82600	Building 6, exterior, south side, window caulking - Grey hardened mastic material	~ 19 x 16 x 3 mm	No asbestos fibres detected
84322	Building 2, interior, north corner, window caulking - Black hardened mastic material	~ 7 x 6 x 3 mm	No asbestos fibres detected
84323	Building 2, interior, 2037, pale green VFS - Grey semi-flexible vinyl tile & amber adhesive	~ 15 x 11 x 3 mm	No asbestos fibres detected
84324	Building 2, exterior, hard mastic to window frames, mastic - Brown soft mastic material	~ 21 x 18 x 3 mm	**Chrysotile (white asbestos) detected**
84325	Building 2, exterior, soft building joint to bricks, mastic - Black rubbery mastic material	~ 16 x 15 x 4 mm	No asbestos fibres detected
84326	Building 1, exterior, white cladding panels to main entry and rear of building, FCS - Beige fibre cement sheet material	~ 9 x 7 x 2 mm	No asbestos fibres detected Organic fibres detected
84327	Building 1, exterior, awning panels to main entry, FCS - Beige layered fibre cement sheet material	~ 10 x 9 x 3 mm	No asbestos fibres detected Organic fibres detected
84328	Building 1, exterior, infill panels to 1164, FCS - Beige fibre cement sheet material	~ 7 x 6 x 2 mm	No asbestos fibres detected Organic fibres detected
84329	Building 1, exterior, partition lining adjacent 1179, FCS - Beige layered fibre cement sheet material	~ 30 x 20 x 4 mm	No asbestos fibres detected Organic fibres detected
84330	Building 1, exterior, north west elevation, debris to ground, FCS - Beige layered fibre cement sheet material	~ 52 x 10 x 4 mm	No asbestos fibres detected Organic fibres detected
84331	Between buildings 22, 28 & 29, debris to ground, FCS - Grey compressed fibre cement sheet material	~ 52 x 31 x 5 mm	**Chrysotile (white asbestos) detected** **Amosite (brown asbestos) detected** **Crocidolite (blue asbestos) detected**
84332	Building 20, exterior, lower wall cladding, FCS - Beige layered fibre cement sheet material	~ 18 x 15 x 5 mm	No asbestos fibres detected Organic fibres detected
84334	Building 20, exterior, north elevation, wall cladding, FCS - Beige layered fibre cement sheet material	~ 25 x 21 x 5 mm	No asbestos fibres detected Organic fibres detected

Sample No.	Location & Description	Sample Size	Results
84335	Building 6, interior, 4016, double door internal lining, FCS - Beige layered fibre cement sheet material	~ 16 x 12 x 4 mm	No asbestos fibres detected Organic fibres detected
84337	Building 6, interior, 4013 & 4014, ceiling lining, FCS - Grey fibre cement sheet material	~ 9 x 8 x 3 mm	**Chrysotile (white asbestos) detected**
84338	Building 6, interior, 1027, lower wall lining, FCS - Beige layered fibre cement sheet material	~ 11 x 10 x 3 mm	No asbestos fibres detected Organic fibres detected
84339	Building 6, interior, infill panels above and below windows - Beige fibre cement sheet material	~ 15 x 13 x 3 mm	**Chrysotile (white asbestos) detected** **Organic fibres detected**
84340	Link between building 16 to 28, interior, small light grey VFT **A.** Grey semi-flexible vinyl tile **B.** Black adhesive	~ 54 x 20 x 4 mm	**A. Chrysotile (white asbestos) detected** **B. Chrysotile (white asbestos) detected**
84341	Link between building 16 to 28, interior, black VFT **A.** Grey semi-flexible vinyl tile **B.** Amber adhesive	~ 45 x 31 x 4 mm	**A. Chrysotile (white asbestos) detected** **B.** No asbestos fibres detected
84342	Link between building 16 to 28, interior, blue grey VFT **A.** Grey semi-flexible vinyl tile **B.** Amber adhesive	~ 32 x 27 x 4 mm	**A. Chrysotile (white asbestos) detected** **B.** No asbestos fibres detected
84343	Link between building 16 to 28, interior, large grey VFT **A.** Grey semi-flexible vinyl tile **B.** Black adhesive	~ 110 x 15 x 4 mm	**A. Chrysotile (white asbestos) detected** **B. Chrysotile (white asbestos) detected**
84344	Link between building 16 to 28, interior, bituminous adhesive to VFT - Black sticky bituminous adhesive material	~ 18 x 17 x 3 mm	**Chrysotile (white asbestos) detected**
84395	Building 28, interior, 1740, gasket to motor - Orange fibrous gasket material	~ 10 x 10 x 3 mm	No asbestos fibres detected Organic fibres detected
84396	Building 28, interior, 1740, ceiling lining, FCS - Grey compressed fibre cement sheet material	~ 23 x 17 x 4 mm	**Chrysotile (white asbestos) detected** **Amosite (brown asbestos) detected**
84402	Building 29, interior, small window, caulking - Grey hardened mastic material	~ 27 x 5 x 4 mm	**Chrysotile (white asbestos) detected**
84404	Building 29, interior, concealed VFS - Grey fibrous backing material with attached vinyl sheet material	~ 41 x 25 x 4 mm	**Chrysotile (white asbestos) detected**
84405	Building 20, interior, 6003, kitchen, grey VFT **A.** Grey semi-flexible vinyl tile **B.** Amber adhesive	~ 41 x 31 x 4 mm	**A. Chrysotile (white asbestos) detected** **B.** No asbestos fibres detected
84406	Building 20, interior, 6003, corridor and kitchen, beige VFT **A.** Beige semi-flexible vinyl tile **B.** Amber adhesive	~ 44 x 37 x 4 mm	**A. Chrysotile (white asbestos) detected** **B.** No asbestos fibres detected
84408	Building 20, interior, 6001, loading area, wall lining, FCS - Grey fibre cement sheet material	~ 8 x 7 x 2 mm	**Chrysotile (white asbestos) detected**
84412	Building 20, interior, 6001, window type 1, caulking - Beige hardened mastic material	~ 11 x 9 x 2 mm	No asbestos fibres detected
84413	Building 20, interior, 6001, window type 2, caulking - Beige hardened mastic material	~ 10 x 9 x 2 mm	No asbestos fibres detected
84414	Building 19, interior, throughout, pebble look beige VFS - Grey fibrous backing material with attached vinyl sheet material	~ 30 x 20 x 4 mm	**Chrysotile (white asbestos) detected**
84415	Building 19, interior, entryway, beige VFS strip - Beige semi-flexible vinyl material	~ 9 x 4 x 3 mm	No asbestos fibres detected
84416	Building 19, interior, black skirting, vinyl strip - Black semi-flexible vinyl material	~ 18 x 16 x 4 mm	No asbestos fibres detected
84417	Building 19, interior, 1712, ceiling lining, FCS - Beige layered fibre cement sheet material	~ 21 x 19 x 3 mm	No asbestos fibres detected Organic fibres detected
84418	Building 19, interior, 1711, window caulking - Amber hardened mastic material	~ 9 x 4 x 3 mm	No asbestos fibres detected
84419	Building 19, interior, 1713, ceiling lining - Grey fibre cement sheet material	~ 7 x 6 x 3 mm	**Chrysotile (white asbestos) detected** **Organic fibres detected**

Sample No.	Location & Description	Sample Size	Results
84421	Link adjacent to 1701, bulkhead, FCS - Grey fibre cement sheet material	~ 6 x 5 x 3 mm	**Chrysotile (white asbestos) detected**
84422	Link adjacent to Building 19, patch to infill panel, FCS - Beige fibre cement sheet material	~ 9 x 7 x 3 mm	No asbestos fibres detected Organic fibres detected
84423	Link adjacent to Building 19, wall lining to both sides, FCS - Grey fibre cement sheet material	~ 7 x 6 x 3 mm	**Chrysotile (white asbestos) detected**
84426	Building 22, interior, 3013, walls, FCS - Peach layered fibre cement sheet material	~ 6 x 4 x 3 mm	No asbestos fibres detected Organic fibres detected
84427	Building 22, interior, 3025, MDI unit, mastic - Black bituminous mastic material	7 x 6 x 3 mm	**Chrysotile (white asbestos) detected**
84428	Building 1, sporadic throughout, olive green VFS - Green semi-flexible vinyl tile & amber adhesive	~ 37 x 23 x 4 mm	No asbestos fibres detected
84429	Building 1, interior, south side windows, caulking - Grey hardened mastic material	~ 10 x 9 x 3 mm	**Chrysotile (white asbestos) detected**
84430	Building 28, interior, 1739, window caulking - Beige hardened mastic material	~ 9 x 7 x 3 mm	No asbestos fibres detected
84431	Building 28, interior, 1739, ceiling lining, FCS - Grey fibre cement sheet material	~ 8 x 7 x 3 mm	**Chrysotile (white asbestos) detected**
84432	Building 28, interior, 1739, wall lining, FCS - Grey fibre cement sheet material	~ 18 x 12 x 4 mm	**Chrysotile (white asbestos) detected**
84433	Building 28, interior, 1739, concealed VFS - Beige semi-flexible vinyl tile & amber adhesive	~ 27 x 26 x 4 mm	No asbestos fibres detected
84436	Building 28, interior, small room next to 1738, red FFS - Red semi-flexible vinyl tile & amber adhesive with attached black backing material	~ 35 x 34 x 5 mm	No asbestos fibres detected Organic fibres detected
84437	Building 17, interior, 1721, beige VFS - Beige semi-flexible vinyl tile & amber adhesive	~ 28 x 21 x 4 mm	No asbestos fibres detected
84439	Building 17, interior, 1714 & 1715, wall lining, FCS - Grey fibre cement sheet material	~ 9 x 6 x 3 mm	**Chrysotile (white asbestos) detected**
84440	Building 17, exterior, subfloor throughout, pipe lagging & debris - Grey lose fibrous insulation material	~ 51 x 41 x 3 mm	**Chrysotile (white asbestos) detected** **Amosite (brown asbestos) detected**
84442	Building 17, exterior, link adjacent to 1717, wall cladding, FCS - Beige layered fibre cement sheet material	~ 12 x 10 x 4 mm	No asbestos fibres detected Organic fibres detected
84443	Building 1, interior, theatre rooms throughout, grey vinyl wall covering, vinyl sheeting - Grey semi-flexible vinyl tile & amber adhesive	~ 41 x 32 x 4 mm	No asbestos fibres detected
84444	Building 1, interior, theatre rooms throughout, green VFS - Black/green semi-flexible vinyl tile & amber adhesive	~ 31 x 27 x 4 mm	No asbestos fibres detected
84445	Building 1, interior, throughout, lower walls, beige vinyl sheeting - Beige semi-flexible vinyl tile & amber adhesive	~ 19 x 13 x 4 mm	No asbestos fibres detected
84446	Building 1, interior, south elevation, older windows, caulking - Grey hardened mastic material	~ 9 x 6 x 3 mm	**Chrysotile (white asbestos) detected**
84447	Building 1, interior, recovery store room bulkhead, FCS - Grey fibre cement sheet material	~ 7 x 6 x 3 mm	**Chrysotile (white asbestos) detected** **Organic fibres detected**
84449	Building 1, interior, 1092, ceiling lining, FCS - Beige layered fibre cement sheet material	~ 25 x 21 x 4 mm	**Chrysotile (white asbestos) detected** **Organic fibres detected**
84450	Building 1, interior, throughout, pebble look VFS - Grey fibrous backing material with attached vinyl sheet material	~ 41 x 30 x 4 mm	**Chrysotile (white asbestos) detected** **Organic fibres detected**
84451	Building 1, interior, 1041, boxing to corner of room, FCS - Beige fibre cement sheet material	~ 10 x 7 x 3 mm	**Chrysotile (white asbestos) detected** **Organic fibres detected**

Sample No.	Location & Description	Sample Size	Results
84452	Building 1, interior, north east stairwell, window caulking - Grey hardened mastic material	~ 10 x 9 x 3 mm	**Chrysotile (white asbestos) detected**
84453	Building 1, interior, 1156, mastic to ductwork - Brown mastic material	~ 12 x 11 x 3 mm	No asbestos fibres detected
84454	Building 1, interior, 1155, red building joint to brickwork, mastic - Red hardened mastic material	~ 27 x 20 x 4 mm	No asbestos fibres detected
84455	Building 1, interior, 1101, ceiling lining, FCS - Beige layered fibre cement sheet material	~ 13 x 11 x 4 mm	**Chrysotile (white asbestos) detected** **Organic fibres detected**
84456	Building 1, interior, 1147, boxing, FCS - Beige layered fibre cement sheet material	~ 31 x 28 x 4 mm	**Chrysotile (white asbestos) detected** **Organic fibres detected**
84457	Building 1, interior, 1147, sterilisation unit, gasket - Green fibrous gasket material	~ 9 x 6 x 3 mm	No asbestos fibres detected Organic fibres detected
84459	Building 1, interior, 1144, single infill panel, FCS - Peach layered fibre cement sheet material	~ 12 x 10 x 3 mm	No asbestos fibres detected Organic fibres detected
84460	Building 1, interior, 1144, partition walls between wet area and office, FCS - Beige layered fibre cement sheet material	~ 7 x 6 x 3 mm	No asbestos fibres detected Organic fibres detected
84461	Building 1, interior, LG plantroom, white gasket to plant - Beige fibrous gasket material	~ 10 x 9 x 3 mm	No asbestos fibres detected Organic fibres detected
84462	Building 1, interior, LG plantroom, HV plant, mastic - Grey sticky mastic material	~ 10 x 10 x 3 mm	**Chrysotile (white asbestos) detected**
84463	Building 1, interior, LG plantroom, thin brown gasket to plant - Red fibrous gasket material	~ 11 x 10 x 3 mm	**Chrysotile (white asbestos) detected**
84465	Building 1, interior, LG plantroom, thin orange gasket to plant - Orange fibrous gasket material	~ 9 x 6 x 3 mm	No asbestos fibres detected Organic fibres detected
84466	Building 1, interior, LG plantroom, white gasket to plant, type 2 - Beige fibrous gasket material	~ 7 x 6 x 3 mm	No asbestos fibres detected Organic fibres detected

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CERTIFICATE OF ANALYSIS 239068

Client Details

Client	Coffey Environment
Attention	Matt Hemingway
Address	Level 19, Tower B, Citadel Tower, 799 Pacific Hwy, Chatswood, NSW, 2067

Sample Details

Your Reference	**754-SYDEN, Griffith Base Hospital**
Number of Samples	1 Paint, 2 Dust
Date samples received	17/03/2020
Date completed instructions received	17/03/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	20/03/2020
Date of Issue	20/03/2020

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Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Hannah Nguyen, Senior Chemist
Jaimie Loa-Kum-Cheung, Metals Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

Lead in Paint		
Our Reference		239068-1
Your Reference	UNITS	82521
Date Sampled		16/03/2020
Type of sample		Paint
Date prepared	-	19/03/2020
Date analysed	-	19/03/2020
Lead in paint	%w/w	0.43

Lead (dust)			
Our Reference		239068-2	239068-3
Your Reference	UNITS	82526	82705
Date Sampled		16/03/2020	16/03/2020
Type of sample		Dust	Dust
Date prepared	-	19/03/2020	19/03/2020
Date analysed	-	19/03/2020	19/03/2020
Lead	mg/kg	43	270

Method ID	Methodology Summary
Metals-004	Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS.
Metals-020	Determination of various metals by ICP-AES.

QUALITY CONTROL: Lead in Paint					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			19/03/2020	[NT]	[NT]	[NT]	[NT]	19/03/2020	[NT]
Date analysed	-			19/03/2020	[NT]	[NT]	[NT]	[NT]	19/03/2020	[NT]
Lead in paint	%w/w	0.005	Metals-004	<0.005	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Lead (dust)					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			19/03/2020	[NT]	[NT]	[NT]	[NT]	19/03/2020	[NT]
Date analysed	-			19/03/2020	[NT]	[NT]	[NT]	[NT]	19/03/2020	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Acid Extractable Metals in Paint: Minimal sample was supplied for sample 239068-1 (<0.01g).

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CERTIFICATE OF ANALYSIS 249475

Client Details

Client	Coffey Environment
Attention	Matt Hemingway
Address	Level 19, Tower B, Citadel Tower, 799 Pacific Hwy, Chatswood, NSW, 2067

Sample Details

Your Reference	**754-SYDEN273529**
Number of Samples	6 Dust, 14 Paint
Date samples received	21/08/2020
Date completed instructions received	21/08/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	26/08/2020
Date of Issue	25/08/2020

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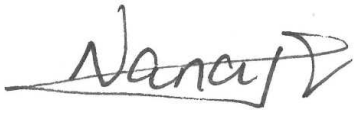
Results Approved By
Jaimie Loa-Kum-Cheung, Metals Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

Lead in Paint						
Our Reference		249475-4	249475-5	249475-6	249475-8	249475-9
Your Reference	UNITS	82589	82592	84333	84407	84409
Date Sampled		18/08/2020	18/08/2020	18/08/2020	18/08/2020	18/08/2020
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	24/08/2020	24/08/2020	24/08/2020	24/08/2020	24/08/2020
Date analysed	-	24/08/2020	24/08/2020	24/08/2020	24/08/2020	24/08/2020
Lead in paint	%w/w	11	7.4	13	0.04	11

Lead in Paint						
Our Reference		249475-10	249475-12	249475-13	249475-14	249475-15
Your Reference	UNITS	84410	84420	84424	84425	84434
Date Sampled		18/08/2020	18/08/2020	18/08/2020	18/08/2020	18/08/2020
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	24/08/2020	24/08/2020	24/08/2020	24/08/2020	24/08/2020
Date analysed	-	24/08/2020	24/08/2020	24/08/2020	24/08/2020	24/08/2020
Lead in paint	%w/w	7.7	<0.005	9.4	3.1	0.092

Lead in Paint					
Our Reference		249475-16	249475-17	249475-19	249475-20
Your Reference	UNITS	84435	84441	84458	84464
Date Sampled		18/08/2020	18/08/2020	18/08/2020	18/08/2020
Type of sample		Paint	Paint	Paint	Paint
Date prepared	-	24/08/2020	24/08/2020	24/08/2020	24/08/2020
Date analysed	-	24/08/2020	24/08/2020	24/08/2020	24/08/2020
Lead in paint	%w/w	0.67	12	<0.005	0.24

Lead (dust)						
Our Reference		249475-1	249475-2	249475-3	249475-7	249475-11
Your Reference	UNITS	69321	69324	69331	84336	84411
Date Sampled		18/08/2020	18/08/2020	18/08/2020	18/08/2020	18/08/2020
Type of sample		Dust	Dust	Dust	Dust	Dust
Date prepared	-	24/08/2020	24/08/2020	24/08/2020	24/08/2020	24/08/2020
Date analysed	-	24/08/2020	24/08/2020	24/08/2020	24/08/2020	24/08/2020
Lead	mg/kg	720	140	23	1,400	200

Lead (dust)		
Our Reference		249475-18
Your Reference	UNITS	84448
Date Sampled		18/08/2020
Type of sample		Dust
Date prepared	-	24/08/2020
Date analysed	-	24/08/2020
Lead	mg/kg	64

Method ID	Methodology Summary
Metals-020	Determination of various metals by ICP-AES.
Metals-020/021/022	Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS.

QUALITY CONTROL: Lead in Paint						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			24/08/2020	8	24/08/2020	24/08/2020		24/08/2020	[NT]
Date analysed	-			24/08/2020	8	24/08/2020	24/08/2020		24/08/2020	[NT]
Lead in paint	%w/w	0.005	Metals-020/021/022	<0.005	8	0.04	0.04	0	94	[NT]

QUALITY CONTROL: Lead (dust)						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			24/08/2020	11	24/08/2020	24/08/2020		24/08/2020	[NT]
Date analysed	-			24/08/2020	11	24/08/2020	24/08/2020		24/08/2020	[NT]
Lead	mg/kg	1	Metals-020	<1	11	200	260	26	96	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
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Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

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Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

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Appendix C: Risk Assessment

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Risk assessment

The presence of hazmat can represent a real or potential health risk to humans. Where, due to material condition and location, a pathway to human exposure does not exist, and then the risks to human health are significantly reduced.

Asbestos-containing materials (ACM)

This section details the categorising of each instance of ACM with regards to friability, condition, accessibility, risk where applicable. Note that the samples which were found not to contain ACM were not categorised for friability, condition, accessibility or risk. Coffey included in the ACM register, the estimated quantities of the material from which the sample originated, for identification purposes.

In order to determine the level of risk associated with the identified ACMs the following aspects need to be assessed:

- Friability;
- Condition assessment; and
- Accessibility.

The following sections identify the descriptors used in the abovementioned categories observed on site.

ACM friability

Each instance of confirmed ACM was categorised by Coffey in accordance with the categories outlined in the table below:

ACM friability assessment

Rating	Descriptor	Decision Rule
N/A	**Not-Applicable**	Non-asbestos containing material.
N - No	**Non- Friable**	Asbestos-containing material which, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure alone.
Y - Yes	**Friable**	Asbestos-containing material which, when dry, is or may become crumbled, pulverized or reduced to powder by hand pressure.

ACM condition assessment

The condition of each instance of confirmed or presumed ACM was classified as one of the three categories outlined in the two tables below:

ACM Condition assessment

Rating	Ranking / Descriptor	Non-Friable ACM	Friable ACM
VG	**Very Good**	Sealed/Encapsulated, no damage	Sealed/Encapsulated, no damage
G	Good	Unsealed, no damage	Sealed/Encapsulated
F	Fair	Unsealed, cracked and weathered	Cracked and damaged
P	Poor	Damaged or Debris	Damaged and or debris

Detailed condition assessment descriptors (ACM)

Descriptor	Guideline
Good	Material is intact and shows no signs of deterioration; No water staining or evidence of material being impacted by water; and/or Any stable (sealed), non-friable asbestos material with no exposed edges. The material must also be well sealed along the surface and edges (i.e. well painted and ceiling/wall sheets must be butt jointed into moulded plastic and the corners or edges must be similarly covered with moulding such a timber quadrant or timber strap).
Fair	• Material is breaking up, delaminating or coming loose from the substrate; and/or • Slight water staining or buckling is evident; and/or • Unsealed and not damaged asbestos cement material used internally. This is recorded only if the damage/deterioration is less than ten per cent (10%) of the total area of the material.
Poor	• Material is non- cohesive. Parts of an installation may be dislodged, or large amounts of dust or pieces of material debris are located on ground near/below the installation; and/or • Water has dislodged some of the material or has caused it to break away from the substrate, or the material is saturated with the potential to fall. • Signs of accumulated dust or small pieces of material debris on ground near or below the installation and accidental or deliberate damage. Also applies to debris and friable asbestos material with ANY degree of compromised encapsulation and/or enclosure.

Accessibility (ACM)

The accessibility to each instance of confirmed ACM was classified one of the three categories outlined in the table below:

Accessibility (ACM)

Descriptor	Guideline
Low	Where activities within the area where ACM are located are unlikely to impact the material; or Areas where the probability of being occupied by building users for extended periods on a regular basis are rare. *(e.g. The material is located externally or above a suspended ceiling, in the roof space, or concealed in service ducts or piping*)
Medium	Where activities within the area where ACMs are located may occasionally impact the material, or Areas where the probability of being occupied by building users for short periods on a regular basis is high. e.g. Plant rooms and workshops containing operational plant or equipment and are occasionally visited. Corridors, lunchrooms, toilets and internal elevated surfaces where a ladder is required for access.
High	Where activities within the area where ACM are located are readily impact the material, or Areas where the probability of being occupied by building users for extended periods on a regular basis is high. E.g. Offices and workshops which are always occupied. As part of job occupants may come into contact with damaged or deteriorated ACM.

ACM level of risk

A risk assessment for each individual ACM to allow informed decisions about control measures during the ongoing occupancy of the assets was undertaken. The risk assessment then identifies the risk treatment options on how to manage *in situ* ACM, determined during the site inspection and is presented in the table below:

ACM risk matrix

Condition	High Accessibility	Medium Accessibility	Low Accessibility
Very Good	Medium	Low	Very Low
Good	Medium	Medium	Low
Fair	High	Medium	Medium
Poor	High	High	Medium

*Note that the above decision rules are a guide only and some instances of ACM may have additional risk assessment outcomes, as appropriate.

Description of risk levels (ACM)

Risk Level	Guideline
Very Low	Material stable. Reassess condition prior any planned works likely to have an impact on these materials.
Low	Material stable. Reassess condition within 12 months.
Medium	Material may remain *in situ* under effective interim administrative controls. Material condition to be improved or likelihood of disturbance to be reduced within 12 months.
High	Area where the material is present; is not suitable for occupancy, remediation is required as soon practicable. Imminent risk of harm. **This category also applies to demolition and/or refurbishment works that will be impacting on asbestos-containing materials.**

Other hazardous materials

This section details the categorising of each instance of other hazmat with regards to friability, condition, accessibility, risk where applicable. The following sections identify the descriptors used in the abovementioned categories observed on site:

Hazmat friability

Variable	Score	Description
Friable	F	Unsealed SMF
	NF	Sealed SMF
	NA	Applicable to ODS, PCB, Lead in paint

Hazmat extent of damage and surface treatment

Variable	Score	Examples of Score Descriptions
Extent of Damage	G	Good condition
	Av	Average condition
	P	Poor condition
Surface Treatment	S	Sealed
	P	Part sealed
	U	Unsealed

Material and location assessment

Coffey adopts the following material and location assessment algorithms in order to assess the risks associated with individual hazardous materials other than asbestos located.

Hazmat friability

Variable	Score	Description
Friable	F	Unsealed SMF
	NF	Sealed SMF
	NA	Applicable to ODS, PCB, Lead in paint

Hazmat extent of damage and surface treatment

Variable	Score	Examples of Score Descriptions
Extent of Damage	G	Good condition
	Av	Average condition
	P	Poor condition
Surface Treatment	S	Sealed
	P	Part sealed
	U	Unsealed

Hazmat likelihood of disturbance

Variable	Score	Examples of Score Descriptions
Occupant Activity	L	Low traffic area
	M	Medium traffic area
	H	High traffic area

Hazmat risk score

The hazardous materials other than asbestos risk score is a qualitative assessment determined by the combination of Material and Location Assessments. Depending on the material one or all of these criteria may be used in assessing the recommended Action.

Hazmat risk score

Variable	Score	Examples of Score Descriptions
Risk Score	L	Low exposure risk
	M	Medium exposure risk
	H	High exposure risk

Appendix D: Legislative Requirements

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Legislative requirements

The assessment, and preparation of this report have been undertaken in accordance with the requirements of State/Territories legislation and standards outlined below.

State/Territories relevant legislation

States & Territories	Acts	Legislation
Australian Capital Territory (ACT)	ACT Work Health & Safety Act 2011	ACT Work Health & Safety Regulation 2011
New South Wales (NSW)	NSW Work Health & Safety Act 2011	NSW Work Health & Safety Regulation 2017
Northern Territory (NT)	NT Work Health & Safety Act 2011	NT Work Health & Safety Regulation 2017
Queensland (QLD)	QLD Work Health & Safety Act 2011	QLD Work Health & Safety Regulation 2011
South Australia (SA)	SA Work Health & Safety Act 2012	SA Work Health & Safety Regulation 2012
Tasmania (TAS)	Tasmanian Work Health & Safety Act 2012	Tasmanian Work Health & Safety Regulation 2012
Victoria (VIC)	Victorian Occupational Health and Safety Act 2004	Victorian Occupational Health and Safety Regulation 2017
Western Australia (WA)	Occupational Safety and Health Act 1984	Occupational Safety and Health Regulation 1996

States/Territories code of practices & compliance codes

States & Territories	Codes of Practices & Compliance Codes	
Australian Capital Territory (ACT)	Code of Practice: How to Manage and Control Asbestos in the Workplace.	Code of Practice: How to Safely Remove Asbestos.
New South Wales (NSW)	Code of Practice: How to Manage and Control Asbestos in the Workplace.	Code of Practice: How to Safely Remove Asbestos.
Northern Territory (NT)	Code of Practice: How to Manage and Control Asbestos in the Workplace.	Code of Practice: How to Safely Remove Asbestos.
Queensland (QLD)	Code of Practice: How to Manage and Control Asbestos in the Workplace.	Code of Practice: How to Safely Remove Asbestos.
South Australia (SA)	Code of Practice: How to manage and Control asbestos in the Workplace.	Code of Practice: How to Safely Remove Asbestos.
Tasmania (TAS)	Code of Practice: How to Manage and Control Asbestos in the Workplace.	Code of Practice: How to Safely Remove Asbestos.
Victoria (VIC)	Compliance Code: Managing Asbestos in Workplaces.	Compliance Code: Removing Asbestos in Workplaces.

Western Australia (WA)	Code of Practice for Management and Control of Asbestos in Workplaces [NOHSC:2018(2005)].	Code of Practice for the Safe Removal of Asbestos [NOHSC:2002(2005)]

The Victorian Compliance Codes align with the intent of the SafeWork Australia Model Code of Practice

Hazardous materials standard & guidance notes

Hazardous material	Guidance Notes
Lead based paint	AS/NZS *4361.2:2017* Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings
Lead-containing dust	National Environmental Protection Measure (NEPM) (NEPC,1999) as updated in 2013.
Synthetic Mineral Fibres	National Occupational Health and Safety Commission (1990) Synthetic Mineral Fibres; National Standard for Synthetic Mineral Fibres; and the National Code of Practice for the Safe Use of Synthetic Mineral Fibres
Polychlorinated Biphenyls in fluorescent light capacitors	ANZECC (1997) Identification of PCB-containing Capacitors: An Information Booklet for Electricians and Electrical Contractors
Ozone Depleting Substances	UNEP (2001) Inventory of Trade Names of Chemical Products containing Ozone Depleting Substances and their Alternatives

Each section is to be read in conjunction with the whole of this report, including the appendices.

Appendix E: Methodology

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Methodology

Hazmat surveys are undertaken considering a risk management approach, in accordance with relevant statutory regulations and relevant Codes of Practice. A risk assessment was conducted based on a number of factors associated with hazmat identified during the survey and prioritised through Risk and Action Classifications.

The assessment involved the onsite investigation for the presence of ACM, SMF, LBP systems, LCD, PCB and ODS including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs). Information was collected from the site owners/occupiers/tenants where available on relevant issues pertaining to the site. Based on the available data and the status at the time of inspection, where items were identified, visual and/or analytical characterisation (where required) was performed and reported in **Appendix A: Asbestos and Hazmat Register**.

The assessment was conducted on the basis of the condition, type and location of the materials at the time of inspection. The scope of this investigation did not allow intrusive sampling techniques to be undertaken in all locations, and consequently the register may have limitations as a reference document for the purposes of renovation or demolition.

Only 'typical' suspected material occurrences are inspected and sampled. Sampling is undertaken on a representative basis, for example, the inspection of one fire door of the same type within the same area is undertaken (i.e. not every 'matching' fire door is examined), unless specifically instructed. Sample collection was performed in a non-destructive and non-invasive manner by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas contain asbestos materials may also be made and stated within the register.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with relevant Statutory Regulations, Codes of Practice and Coffey's Work Instructions. Laboratories undertaking analysis are appropriately NATA certified for the analysis conducted. LCD thresholds are adopted from lead in soil thresholds found in the National Environment Protection Assessment of Site Contamination (ASC) Measure (1999) as amended in 2013 (NEPM).

The presence of asbestos in bulk samples is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques. Where asbestos was found to exist, a risk assessment was conducted on each item and a priority rating applied. This was conducted in accordance with the protocols described in **Appendix C: Risk Assessment**.

The asbestos and hazmat register is made up of relevant information gathered on site plus Coffey's assessment of risk and assignment of action ratings. Reference to photographs, where available, is made in the register along with sample identification and analysis results, where applicable. Sample analysis results from previous assessments may be utilised and referenced in this register.

Coffey is a Type C inspection body and acts in accordance with its National Association of Testing Authorities (NATA) accreditation (inspection body 18378 and accreditation number 2220) which is held nationally and operates in compliance with ISO/IEC 17020 – *General Criteria for the Operation of Various Types of Bodies. Performing Inspection for Hazardous Material Surveys*.

Appendix F: Statement of Limitations

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Statement of limitations

Coffey has conducted work concerning the environmental status of the property which is the subject of this report and has prepared this report on the basis of that assessment.

The work was conducted, and the report has been prepared, in response to specific instructions from the client to whom this report is addressed, within the time and budgetary requirements of the client, and in reliance on certain data and information made available to Coffey. The analyses, evaluations, opinions and conclusions presented in this report are based on those instructions, requirements, data or information, and they could change if such instructions etc. are in fact inaccurate or incomplete.

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client's instruction, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected.

This report has been provided by Coffey for the sole use of the client and only for the purpose for which it was prepared. Any representation contained in the report is made only for the client.

No inspection can be guaranteed to locate all asbestos in a specific location. The assessment cannot be regarded as absolute, without extensive invasion of structures. Future demolition and or renovation to site structures may expose situations, which were concealed or otherwise impractical to access during this assessment.

The assessment brief is to identify every reasonably accessible hazmat. Reasonably accessible does not extend to searching for concealed hazmat beneath concrete encased structural beams or beneath concrete floors, behind another hazmat, or any other locations which, to access, would cause structural damage that could potentially destabilise the structure or the building. Given the way in which hazmat was used in the construction of buildings, some may only be detected during the course of subsequent demolition.

Any areas within the remit of the assessment but not described within the body of the report or in hazmat Assessments should be regarded by the client as un-assessed, and suspected ACM potentially containing amphibole asbestos. A competent person should assess such areas before any work affecting them is carried out.

It must be assumed that materials visually assessed as presumed asbestos contain amphibole asbestos, unless sampled and analysed to prove otherwise. All areas where access was not possible must also be presumed to contain asbestos until proven otherwise.

Asbestos-containing materials

Coffey assessors take samples at any situations known, or suspected, to contain Asbestos. Where the analysis determines that No Asbestos is Detected (NAD) the samples are listed in the report to provide information for potential future assessments.

Representative sampling is defined as one like sample per consistent material type, situation or item. In these instances, only one test sample will be collected for analytical confirmation and the results expressed as consistent and typical of the building. It is advisable to presume that materials similar to those positively identified as asbestos also contain asbestos until proved otherwise. It should not be presumed that materials similar in appearance to those tested and found not to contain asbestos also do not contain asbestos.

Due to the very low concentration of asbestos fibres and the non-homogenous matrix of vinyl floor tiles, false negative results may be obtained. Therefore, the accuracy of all results cannot be guaranteed.

Notably, with some asbestos-containing bulk material it can be very difficult, or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres

present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

The analysis of many asbestos products used as a component of insulation materials, may be compromised in instances where the material has been heat affected, as heat may alter the morphology of the fibrous material.

Internal building materials should be assumed to contain asbestos until otherwise assessed.

Subsurface drains and pipes may be constructed of asbestos cement, but this could not be assessed. Any subsurface pipes, particularly those constructed of fibre-cement or concrete, should be assumed to contain asbestos until otherwise assessed.

It is also noted that sub-surface conditions can change with time, and the report is based on data that was gathered at the time of the report. Coffey will not update the report and has not taken into account events occurring after the time the assessment was conducted.

The following limitations and restrictions to specific materials, installations and locations are commonly found during assessments of this nature, even if safe access can be provided through consultation with the client this inspection and report may not include the following areas:

- **Risers / Ceiling, Floor or Wall Cavities, and Voids** - may be completely blocked or bricked in. Occasionally may only be detected if shown on building construction plans or during demolition
- **Columns / Structural Elements** - these will not be penetrated if doing so will damage the stability of the building
- **Roofs / External Areas** - these will not be checked if safe access cannot be achieved
- **Confined Spaces** - these will not be checked if safe access cannot be achieved
- **Restricted Access** - areas subject to restricted access will not be checked unless special arrangements have been made through the client within the remit of the assessment
- **Live Plant or Electrical Installations** - live electrical installations including fuse boxes, electrical control cabinets, distribution panels etc. are not routinely checked for safety reasons. Electrical equipment will only be examined if it is locked off and an isolation certificate has been issued. Under exceptional circumstances, when arranged by the client, examination of non-isolated equipment may take place under the supervision of an electrician
- **Live Refrigerators / Cold Rooms / Mechanical Equipment / Heater Units / Kilns** - may contain asbestos internally, which is not visible or accessible until the unit is isolated and dismantled

The Client must not rely on an inspection or report as indicating that a site or a building is “asbestos free”. All that the report can be relied upon to show is that no asbestos was found (or that only such asbestos was found as was reported to be found) in the course of the inspection. The findings of the report must be considered together with the specific scope and limitations of the type of inspection undertaken.

Should any other material suspected to contain asbestos or hazmat be found at the site, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.