



**REPORT TO
HEALTH INFRASTRUCTURE**

**ON
HAZARDOUS BUILDING MATERIALS SURVEY**

**FOR
GUNNEDAH HOSPITAL REDEVELOPMENT**

**AT
2 MARQUIS STREET, GUNNEDAH, NSW**

Date: 18 August 2022
Ref: E35091BTrpt-HAZ

JKEnvironments
www.jkenvironments.com.au

T: +61 2 9888 5000
JK Environments Pty Ltd
ABN 90 633 911 403





Survey undertaken by:

Elliot Wood

Environmental Scientist/Hazardous Building Materials Consultant

Report prepared by:

Katrina Taylor

Associate | Environmental Scientist/Asbestos Assessor (LAA 001025)

Report checked by:

Vittal Boggaram

Principal Associate | Environmental Scientist

For and on behalf of

JKE

PO BOX 976

NORTH RYDE BC NSW 1670

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Abbreviations

Asbestos Containing Material	ACM
Chain of Custody	COC
JK Environments	JK E
National Association of Testing Authorities	NATA
Personal Protective Equipment	PPE
Polychlorinated Biphenyls	PCB
Practical Quantitation Limit	PQL
Synthetic Mineral Fibre	SMF

Units

<i>Lineal metres</i>	lm
Metres squared	m ²
Milligrams per metre cubed	mg/m ³
Percentage	%
Percentage weight for weight	%w/w

1 INTRODUCTION

Health Infrastructure ('the client') commissioned JK Environments (JKE) to undertake a hazardous building materials (HAZMAT) survey for the proposed Gunnedah Hospital Redevelopment at Gunnedah Hospital, 2 Marquis Street, Gunnedah, NSW. The site location is shown on Figure 1 and the survey was confined to the site buildings/structures as shown on Figure 2.

This document was prepared specifically for the proposed site redevelopment works and should not be considered a hazardous building materials management plan or removal control plan.

1.1 Proposed Development Details

It is understood that Gunnedah Hospital is proposed to be redeveloped in line with the current Clinical Services Plan (CSP) which includes a mix of demolition, refurbishment, retention and construction of new buildings and structures across the site.

1.2 Scope of Work

The survey was undertaken generally in accordance with a JK proposal (Ref: EP56438BT) of 3 May 2022 and written acceptance from the client of 28 June 2022. The scope of work included the following:

- A detailed inspection of the existing building and structures shown on Figure 2;
- Review of existing HAZMAT register information;
- Sampling of representative materials in accordance with the survey criteria and inspection procedure outlined in Section 4;
- Documentation of inspection finds including sample location, material type, condition, friability, photographic evidence and site location;
- Laboratory analysis of selected representative materials; and
- Preparation of a report presenting the results of the HAZMAT survey and a risk assessment of each HAZMAT identified, and a HAZMAT register per material type (and building), for the site.

2 SITE DESCRIPTION

2.1 Site/Buildings Description

Field work for this investigation was undertaken between 18 and 20 July 2022. The site description at the time of the field work is outlined below. The site location is shown on Figure 1 and the site layout is shown on Figure 2.

The site is located to the north of Reservoir Street, the west of Anzac Parade and the east of Marquis Street. A general description of each building/structure included in the survey is outlined below. Reference should be made to the Hazmat register attached in the appendices:

GU01 – Education Centre

Located in the central north of the site, the education building is a freestanding single storey structure. The education centre building was constructed with brick external walls; plaster internal walls and ceilings; fibre cement eaves; and concrete floors on brick piers with a metal roof.

GU03 – General Ward

Located in the centre of the site and comprising a portion of the main hospital building, the general ward was made up of several departments including: general wards, imaging, emergency, Central Sterile Services/Supplies Department (CSSD). This section of the building was constructed with: timber external walls; brick and plaster internal walls; plasterboard ceilings; fibre cement eaves; and concrete floors on brick piers with a metal roof.

GU04 – Obstetrics

Located in the centre of the site and comprising the south-east section of the main hospital building, obstetrics comprised two key sections including the maternity ward and birthing suites. This section of the building was constructed with: fibre cement and brick external walls; brick, masonite and plasterboard internal walls, fibre cement eaves; and concrete floors on brick piers with a metal roof.

GU05 – Administration

Located in the centre of the site and comprising the western section of the main hospital building, administration comprised two key sections including administration and the Family Health Clinic. This section of the building was constructed with: brick external walls; plasterboard and fibre cement internal walls and ceilings; fibre cement eaves; and concrete floors on brick piers with a metal roof.

GU06 – Community Health

Community Health was located to the north of Administration in the main hospital building. This section of the building was constructed with: brick external walls; brick, plasterboard and fibre cement internal walls; fibre cement and plasterboard ceilings; fibre cement eaves; and concrete floors with a metal roof.

GU07 – Dental

Located in the centre of the main hospital building, Dental comprised two key sections including: the dental clinic; and physiotherapy. This section of the building was constructed with: fibre cement and brick external

walls; brick and plasterboard internal walls, plasterboard, timber and fibre cement ceilings; and fibre cement eaves; and concrete floors on brick piers with a metal roof.

GU08 – Kitchen

Located in the south-west of the main hospital building, the kitchen included the back of house and kitchen areas. This section of the building was constructed with: brick and fibre cement external walls; brick, plasterboard and fibre cement internal walls; fibre cement and plasterboard ceilings; fibre cement eaves; and concrete floors on brick piers with a tile and fibre cement roof.

GU09 – Staff Quarters

Located in the south of the site, the staff accommodation building was a freestanding single storey structure comprising both staff quarters and clinics. The building was constructed with: brick external walls; plasterboard and brick internal walls; plasterboard ceilings; and fibre cement eaves; concrete floor on brick piers with a tiled roof.

The clinics section of the building (south-east portion), was inaccessible at the time of the survey and is not included in the scope of works.

GU10 – Day Care Centre

Located in the south of the site and to the north of the staff quarter building, the day care centre was a freestanding single storey structure. The building was constructed with: brick and timber external walls; brick and plasterboard internal walls; plasterboard and fibre cement ceilings; fibre cement eaves; and concrete floors with a metal roof.

GU11 – Gazebo

The gazebo was a freestanding structure located to the south of dental and west of obstetrics. The gazebo was a freestanding structure, constructed with: timber support beams; a fibre cement ceiling; concrete floor slab; and fibre cement roof.

GU12 – Workshops

The engineering workshops are located in the west of the site south of the mortuary and west of the kitchen. The engineering workshops was a freestanding single storey structure. The building was constructed with: brick external and internal walls; metal and fibre cement ceilings; concrete floor slab and metal roof.

A small standalone brick structure was located to the east of the engineering workshops. The structure comprised a redundant incinerator and chimney. The structure was constructed with: brick walls on a concrete slab.

GU13 – Mortuary

The mortuary was a single storey freestanding building located in the west of the site adjacent to the engineering workshops. The mortuary was constructed with: brick external walls; plaster and brick internal walls; plasterboard ceilings; fibre cement eaves; and concrete floor slab with a metal roof.

GU17 – Chapel

The chapel was located in the central section of the main hospital building between the maternity and general wards. This section of the building was constructed with: brick external walls; plasterboard internal walls; plasterboard ceilings; fibre cement eaves; and concrete floors on brick piers with a metal roof.

Buildings/Structures not included in survey or Not Sighted

Buildings GU02 Kiosk, Rural Health Centre, and the Ambulance Station were not included in the scope of works for the survey.

It is also noted that during the site inspection buildings GU14 Flammable Store, GU15 Carport, and GU16 Aboriginal Shade Shelter were no longer present on the site. No specific information regarding their removal/demolition was provided to JKE.

2.2 Previous HAZMAT Register

The existing hazardous materials register dated 2016 was provided for the site¹. With the exception of buildings/structures no longer present on the site and lagging presumed to be within inaccessible wall cavities, all items listed in the previous survey were reinspected (excluding areas noted above) and have been included in the HAZMAT registers attached in the appendices.

It is noted that, with the exception of remarks in the comments/condition column of the register for GU08 and GU11, only a visual survey of potential asbestos containing materials, SMF containing materials and potential lead based paint items were undertaken in the previous survey. The laboratory report noted in the register was not provided for review.

Table 2-1: Summary of Previous Survey

Building/Structure	Summary of Survey Findings
GU01 – Education Centre	<ul style="list-style-type: none">Only bonded asbestos containing material identified.
GU02 – Kiosk	<ul style="list-style-type: none">Only bonded asbestos containing material identified.
GU03 – General Ward	<ul style="list-style-type: none">Friable and bonded asbestos containing materials identified; andSMF containing materials identified.
GU04 – Obstetrics	<ul style="list-style-type: none">Friable and bonded asbestos containing materials identified; andSMF containing materials identified.
GU05 – Administration	<ul style="list-style-type: none">Friable and bonded asbestos containing materials identified; andLead based paint identified.

¹ Hunter New England Local Health District (HNELHD), (2016). *Hazardous Materials Register of Gunnedah Hospital, Marquis Street, Gunnedah, NSW 2380 Australia*. (Document ref: HNELHD_HAZ_REG_GUNNEDAH_V1.0DRAFT, dated 1 March 2016)

Building/Structure	Summary of Survey Findings
GU06 – Community Health	<ul style="list-style-type: none"> Friable asbestos containing materials identified; and SMF containing materials identified.
GU07 – Dental	<ul style="list-style-type: none"> Friable and bonded asbestos containing materials identified; SMF containing materials identified; and Lead based paint identified.
GU08 – Kitchen	<ul style="list-style-type: none"> Friable and bonded asbestos containing materials identified; and Lead based paint identified.
GU09 – Staff Quarters	<ul style="list-style-type: none"> Bonded asbestos containing materials identified.
GU10 – Day Care Centre	<ul style="list-style-type: none"> No potential asbestos containing material was identified.
GU11 – Gazebo	<ul style="list-style-type: none"> Bonded asbestos containing materials identified.
GU12 – Workshops	<ul style="list-style-type: none"> No potential asbestos containing material was identified.
GU13 – Mortuary	<ul style="list-style-type: none"> Bonded asbestos containing materials identified.
GU14 – Flammable Store	<ul style="list-style-type: none"> No potential asbestos containing material was identified.
GU15 – Car Port	<ul style="list-style-type: none"> No potential asbestos containing material was identified.
GU16 – Aboriginal Shade Shelter	<ul style="list-style-type: none"> No potential asbestos containing material was identified.
GU17 - Chapel	<ul style="list-style-type: none"> No potential asbestos containing material was identified.

In addition to the above HAZMAT register, an Asbestos Clearance Certificate was provided indicating that removal works had been undertaken within the ceiling void and gable ends of GU05 – Administration.² Information from the clearance certificate is summarised in the following table:

Table 2-2: Summary of Asbestos Removal

Date of removal	Details	Date of Clearance	Outcome/ Comments
31/05/2016 – 02/06/2016	<p>The following items were removed:</p> <ul style="list-style-type: none"> Damaged flat fibrous cement sheet (FFCS) cladding and infill panels within the ceiling void; FFCS fragments, debris and associated dust from damage sustained to the FFCS cladding and infill panels described above; and FFCS tile mortar support strips to the roof gable ends. 	2 June 2016	<p>The inspection found NO VISIBLE ASBESTOS remaining. Visually, all identified asbestos-containing materials had been removed from the identified areas. The removal area and immediate surrounds had been cleaned to a practically achievable standard with no visible asbestos residue.</p> <p>No analytical clearance sampling was conducted.</p>

² Practical Environmental Solutions (2016). *Asbestos Clearance Certificate (Report ref: PES_ACC_GunnedahHopsitalACMRemoval_June'16)*.

3 REGULATORY BACKGROUND INFORMATION

All work associated with the inspection and reporting of HAZMAT is generally undertaken in accordance with the following legislation, guidelines and standards:

Table 3-1: Guidelines / Documents

GUIDELINES / REGULATIONS / DOCUMENTS
Asbestos
<i>Code of Practice How to Manage and Control Asbestos in the Workplace</i> , Safe Work NSW, August 2019
<i>Code of Practice How to Safely Remove Asbestos</i> , Safe Work NSW, August 2019
SMF
<i>National Standard for the Safe Use of Synthetic Mineral Fibres</i> [National Occupational Health and Safety Commission:1004 (1990)]
<i>National Code of Practice for the Safe Use of Synthetic Mineral Fibres</i> [National Occupational Health and Safety Commission:2006 (1990)]
<i>Code of Practice for the Safe Use of Synthetic Mineral Fibres</i> , WorkCover: 1993.
Lead
<i>Guide to Lead Paint Management - Part 2: Residential and Commercial Buildings</i> , Australian Standard AS4361.2, 1998
<i>Guide to Hazardous Paint Management, Part 2: Lead Paint in Residential, Public and Commercial Buildings</i> , Australian Standard AS4361.2, 2017
PCBs
<i>Identification of PCB-Containing Capacitors</i> , Australian and New Zealand Environment and Conservation Council (ANZECC), 1997
Ozone Depleting Substances
<i>Ozone Protection and Synthetic Greenhouse Gas Management Act 1989</i>
General
<i>Work Health and Safety Act 2011 (NSW)</i>
<i>Work Health and Safety Regulation 2017 (NSW)</i>

4 ASSESSMENT CRITERIA AND INSPECTION PROCEDURE

The survey included a visual inspection of the buildings/structures, sampling and laboratory analysis as described in the following sections.

4.1 Asbestos Fibre Containing Materials

Representative samples of construction materials identified as potentially containing asbestos were obtained using hand tools by personnel wearing suitable personal protective equipment (PPE). The samples were placed in sealed plastic bags and labelled with a unique job number, sampling location and date. All samples were recorded on the chain of custody (COC) record presented in the appendices.

Following the completion of the field inspection, the samples were forwarded to a National Association of Testing Authorities (NATA) registered laboratory, Envirolab Services Pty Ltd (NATA Accreditation No. 2901), for analysis. The asbestos samples were analysed using stereo and polarising light microscopy methods with dispersion staining techniques.

4.2 Lead Containing Materials

Representative samples of deteriorated paint films and accumulated dust that potentially contain elevated lead concentrations were obtained using hand tools by personnel wearing suitable PPE.

Only significantly deteriorated paint systems that are considered likely to impact on demolition/refurbishment practices or that are considered a health or environmental hazard were sampled and recorded.

The paint flakes obtained included all layers of paint on a particular surface and so are considered to be composites of the materials at each location. The paint flake samples were placed in sealed plastic bags and labelled with a unique job number, sampling location and date. All samples were recorded on the COC record presented in Appendix C.

In accordance with the Australian Standard AS4361.2, 2017 *“Guide to Hazardous Paint Management, Part 2: Lead Paint in Residential, Public and Commercial Buildings*, a lead in paint concentration greater than 0.1% w/w is considered to be lead based paint.

Settled dust sampling involved the collection of settled dust from a known surface area by wet wipe. The area should preferably be 0.09m² (which corresponds to an area 30 cm × 30cm) and in any event not less than 0.01m², depending on the amount of dust present. A non-alcoholic moistened wipe is folded to form a firm swab. The swab is placed flat onto the surface in one corner of the area to be sampled and rubbed across the entire area in an ‘S’ pattern. The wipe is re-folded so that the collected dust is on the inside and is again rubbed across the area at 90° to the first ‘S’. The wipe is again folded with the dust inside and placed in the sterile sample container.

The lead concentration per m² is calculated using the equation (µg/swab ÷ 0.09) ÷ 1000.

Following the completion of the field inspection, the samples were forwarded to a NATA registered laboratory for analysis. Analysis for lead content is performed using a nitric and hydrochloric acid digest followed by ICP-AES (Inductively Coupled Plasma – Atomic Emission Spectroscopy) quantification methods.

The result, when received from the laboratory, is converted to milligrams, and then divided by the area sampled (in square metres) to give a lead loading expressed in mg/m².

4.2.1 Lead Materials Assessment Criteria

As stated above, a lead in paint concentration greater than 0.1% w/w is considered to be lead based paint.

In the absence of current published lead levels in dust, the acceptance level of 8 mg/m² for exterior surfaces as published in *Australian Standard AS4361.2, 1998 Guide to Lead Paint Management - Part 2: Residential and Commercial Buildings*, is considered the most appropriate guideline for comparison for lead in ceiling dust, and has been adopted for the assessment.

4.3 Polychlorinated Biphenyls (PCBs) Containing Electrical Equipment

The major use of PCBs in the electrical industry has been inside transformers and capacitors. Transformers may include relatively small transformers inside electrical mains/fuse cabinets. Capacitors containing PCBs were installed in numerous types of fluorescent light fittings during the 1950's, 60's and 70's.

Representative samples of each type of electrical equipment identified within the existing structure were visually examined to assess whether the equipment is insulated with PCBs. Details on the make, type, capacitance, dimensions, date and power were recorded and checked with the ANZECC database of known PCB containing electrical equipment and the results of the review were noted.

4.4 Synthetic Mineral Fibre Containing Materials

Construction materials identified as potentially containing synthetic mineral fibre (SMF) were examined by site personnel and their location was noted. In the event that the materials were suspected to contain asbestos fibres, representative samples were obtained using hand tools by personnel wearing suitable PPE. The material samples were placed in sealed plastic bags and labelled with a unique job number, sampling location and date. All samples were recorded on the COC record presented in Appendix C.

Following the completion of the field inspection, the samples were forwarded to a NATA registered laboratory for asbestos fibre analysis. The samples were analysed using stereo and polarising light microscopy methods with dispersion staining techniques.

4.5 Ozone Depleting Substances (ODS)

The major use of ODS has been in refrigerators, air conditioners, fire extinguishers, foam, and aerosol propellants. Production of most ozone depleting substances has been phased out under the Montreal Protocol. In Australia the phase out of the most potent chemicals happened between 1991 and 1995. In

1996 Australia started its phase-out of hydrochlorofluorocarbons (HCFCs), through import controls under the *Ozone Protection and Synthetic Greenhouse Gas Management Act 1989*. R22 was commonly used in residential and commercial refrigeration and air conditioning systems from the 1990s, following the phase out of chlorofluorocarbons (CFCs) in 1995.

As per the scope of the survey, items to be inspected for ODS included records held by each hospital for: refrigerators; air conditioners; fire extinguishers; and any other aerosol propellants onsite.

5 RISK ASSESSMENT

The following sections outline how the risk rating and control measures of a material type have been established. JKE have compiled the risk rating and control measures from previous asbestos risk assessments previously undertaken by NSW Health for hospital sites.

5.1 HAZMAT Risk Assessment

Table 5-1: HAZMAT Risk Assessment Algorithm Score Summary

Sample Variable		Score	Example of Score (Hazard Sub)
A	HAZMAT Classification	1	<ul style="list-style-type: none"> Non-Friable (bonded) asbestos or SMF Deteriorated lead based paint system Lead in accumulated dust PCB containing electrical equipment ODS in aerosol propellants
		3	<ul style="list-style-type: none"> Friable (asbestos / SMF)
B	Product Type	1	<ul style="list-style-type: none"> Asbestos/SMF - Cement bound material and reinforced composites (plastics, resins, roofing felts, vinyl floor tiles, vinyl sheeting, semi-rigid paints or decorative finishes, fibre cement etc.) Lead in paint, lead in accumulated dust, PCB containing electrical equipment; and ODS in aerosol propellants
		2	<ul style="list-style-type: none"> Low-density insulation boards, asbestos textiles, gaskets, ropes and woven textile, fire door core, asbestos membrane
		3	<ul style="list-style-type: none"> Thermal insulation / insulation material (e.g. pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packaging (friable material)
C	Accessibility	0	<ul style="list-style-type: none"> No Access (e.g. under floor boards, sealed areas)
		1	<ul style="list-style-type: none"> Restricted access: Maintenance/Service personnel
		3	<ul style="list-style-type: none"> Limited access: NSW Health staff & maintenance/service personnel
		4	<ul style="list-style-type: none"> Full access: All staff and general public
D	Signage / Labelling	0	<ul style="list-style-type: none"> Adequate labelling/signage or not reasonably practicable (asbestos items) No labelling/signage (paint, dust, PCB containing electrical equipment, ODS in aerosol propellants & SMF materials)
		1	<ul style="list-style-type: none"> Inadequate or no labelling/signage (asbestos only).
E	Damage / Deterioration (Condition)	0	<ul style="list-style-type: none"> Good condition: no visible damage, stable (asbestos, SMF, PCB containing electrical equipment, and ODS in aerosol propellants) Contained (dust)
		5	<ul style="list-style-type: none"> Low damage (i.e. broken edges on fibre cement sheets, vinyl tiles etc.) Deteriorated paint.
		7	<ul style="list-style-type: none"> Medium damage (i.e. numerous damaged areas, fibre cement fragment debris, etc.)
		10	<ul style="list-style-type: none"> High damage (i.e. friable asbestos debris, degraded bonded material, etc.). Leaking PCB electrical equipment & ODS in aerosol propellants.

5.2 Risk Assessment Algorithm

Table 5-2: Risk Rating Based upon Algorithm

Score	Risk Rating	Timeframe to develop and implement short-and-long-term controls
15>	High	Immediate
11-14	Medium	0 to 3 months
6-10	Low	0 to 2 years
<5	Very Low	0 to 5 years

5.3 Control Measures

Table 5-3: Control Measures

Control Number	Control Measure
Asbestos/SMF controls	
C1	Isolate/seal-off area and erect appropriate warning signage in accordance with AS 1319-1994 Safety Signs for the Occupational Environment.
C2	Encapsulate/enclose material in accordance with relevant regulations as outlined in Section 0.
C3	Remove any debris and seal damaged edges with an appropriate sealant such as Emerclad paint or PVA sealant/paint.
C4	Confirm asbestos status via inspection and/or sampling when access is available.
C5	Manage in-situ and incorporate into an Asbestos Management Plan (AMP) for the site.
C6	Remove prior to refurbishment/demolition by appropriately licensed asbestos removal contractor in accordance with the relevant standard/code of practice/guidelines as outlined in Section 0.
C7	Re-inspect material and conditions every five years or sooner if deemed necessary in accordance with relevant regulations as outlined in Section 0.
Lead Based Paint and Lead in Dust Controls	
C8	Stabilisation/abatement by appropriately licensed hazardous materials contractor in accordance with the relevant standard/code of practice/guidelines.
Lead in Dust & ODS in Aerosol Propellant Controls	
C9	Contained/disposal by appropriately licensed hazardous materials contractor in accordance with the relevant standard/code of practice/guidelines.
PCB containing electrical equipment Controls	
C10	Confirm PCB containing when safe to do so (no electrical hazard) or assume to contain PCBs and contain/disposal by appropriately licensed hazardous materials contractor in accordance with the relevant standard/code of practice/guidelines.

Note: Licenced Asbestos Assessor/experienced HAZMAT consultant to determine control measures based on Professional Judgement at time of inspection.

6 RESULTS OF THE INSPECTION

6.1 Summary of HAZMAT Presence per Building

A summary of the presence of each HAZMAT type per building is outlined in the following table:

Table 6-1: Summary of HAZMAT presence per building

Building No. and reference	Friable asbestos	Bonded asbestos	SMF materials	Det. lead based paint	Lead in dust	PCB cont. electrical equipment	ODS in aerosol prop.
Building 1 Education Centre	No	No	Yes	No	No	Yes	No
Building 3 General Wards	Yes	Yes	Yes	No	No	No	No
Building 4 Obstetrics	Yes	Yes	Yes	No	No	No	No
Building 5 Administration	Yes	Yes	Yes	Yes	No	No	No
Building 6 Community Health	Yes	No	Yes	No	No	Yes	No
Building 7 Dental	Yes	Yes	Yes	Yes	No	Yes	No
Building 8 Kitchen	Yes	Yes	Yes	Yes	No	Yes	No
Building 9 Staff Quarters	Yes	Yes	Yes	Yes	No	Yes	No
Building 10 Day Care Centre	No	Yes	Yes	No	No	Yes	No
Building 11 Gazebo	No	No	No	No	No	No	No
Building 12 Engineering workshops	No	Yes	Yes	Yes	No	Yes	No
Building 13 Mortuary	No	No	Yes	No	No	Yes	No
Building 17 Chapel	No	No	No	No	No	No	No

For specific locations and details of materials inspected and sampled during the inspection, please refer to the HAZMAT register and the laboratory analysis report attached in the appendices.

Recommendations for each HAZMAT type identified at the site are provided in the following sections:

- Asbestos materials – Section 7.1;
- Lead in paint - Section 7.2;
- Lead in accumulated dust – Section 7.3;
- PCB containing electrical equipment – Section 7.4;
- SMF materials – Section 7.5; and
- ODS in aerosol propellants – Section 7.6.

6.2 Site Access Limitations

Andrew Nichols of Hunter New England Local Health District (HNELHD) provided access to all buildings and structures included in the survey and as outlined in Section 2.1. However, during the survey access to some areas was restricted due to: occupation by patients, general public, and hospital staff; furniture, fittings and stored materials; height restrictions; electrical hazards; mechanical hazards; and other building restrictions (i.e., sealed areas, confined spaces, service ducts, etc).

It should be noted that quantities of materials are approximate and have been calculated based on professional judgement and assumptions regarding the extent of visible materials and materials extending into or in inaccessible areas. Where asbestos lagged pipework was encountered in service ducts (i.e. GU05/AS03), it should be assumed that the lagged pipework extends throughout the building (i.e. inaccessible cavities such as floor, wall and ceiling/roof). Where these items have been identified in one section of a building, they should be assumed to extend throughout the building (i.e. the entire main hospital building, not only general wards or obstetrics).

Where HAZMAT items were recorded during the previous survey and were not able to be inspected due to access limitations or location identification, these items have been included in the HAZMAT register for completeness using the information (including risk assessment and photographs), from the previous survey. When access becomes available, these items should be reinspected and their HAZMAT status confirmed.

The clinics section (south-east) of GU09 - staff quarters building was inaccessible at the time of the survey due to private use by others.

No register/records were provided to JKE prior to or during the site inspection for: refrigerators; air conditioners; fire extinguishers; and any other aerosol propellants onsite. The HNELHD representative indicated that any ODS had been removed and/or replaced, however no record was provided to confirm this.

6.3 Unused Sample Numbers

Sample number GU08/ASB08 (asbestos) was not used during the survey.

7 COMMENTS AND RECOMMENDATIONS

7.1 Asbestos Materials

Asbestos fibre containing construction materials have been identified within the interior and the exterior of the existing buildings and structures at the site. Both friable and non-friable (bonded), materials were identified as summarised in Section 6.1 and detailed in the HAZMAT register. Any materials presumed to contain asbestos must be treated as such.

An AMP must be prepared for the site to meet the requirements under Clause 429 of the Work Health and Safety Regulation (2017). Prior to demolition or refurbishment work the HAZMAT register and the AMP must be provided as a register to the demolition/building contractor.

Control measures should be implemented immediately for asbestos materials with a medium or high-risk rating and control measure of C1, C2 and/or C3 (refer to Section 5.3), as recorded in the registers. A tabulated summary of the medium and high risk items is outlined in the table below:

Table 7-1: Summary of asbestos containing materials with medium or high-risk rating

Building No. and reference	Location	Material type	Approx. extent	Risk rating
GU03 – General Wards	External, northern eaves, north-eastern corner, ground surface	Debris (and paint)	<1m ²	Medium
GU03 – General Wards	Internal, walls, waterpipes	Rope lagging to pipework	>100lm	High
GU04 - Obstetrics	External, subfloor, pipework	Rope lagging to pipework	>100lm	Medium
GU04 - Obstetrics	External, subfloor, soil contamination throughout area	Insulation debris	>5m ²	High
GU04 - Obstetrics	External, eastern wall, ground surface	Fibre cement debris	<1m ²	Medium
GU05 - Administration	Internal, subfloor, heating pipes	Wrapped insulation	500lm	High
GU05 - Administration	Internal, walls, pipework	Rope lagging to pipework	>100lm	High
GU06 – Community Health	Internal, walls, pipework	Rope lagging to pipework	>100lm	High
GU07 - Dental	Internal, walls, pipework	Rope lagging to pipework	>100lm	High
GU08 - Kitchen	Internal, walls, waterpipes	Rope lagging to pipework	>100lm	High
GU11 – Engineering workshops	External, south-eastern corner, ground surface	Fibre cement debris	<1m ²	Medium

The risk ratings as outlined in the register should be routinely reviewed based on any change in material condition, and control measures implemented in accordance with the timeframes as outlined in Section 5.2 of this report.

As friable asbestos has been identified on site, all works associated with the disturbance and removal of any friable asbestos containing materials must be undertaken by a Licenced *Class A* Asbestos Removalist.

The asbestos removalist must prepare an Asbestos Removal Control Plan for the proposed works. The control plan must include an allowance for asbestos air fibre monitoring during the removal and thorough clean up works upon completion of the removal works.

A clearance inspection must be undertaken on completion of removal works and prior to any other construction activities being undertaken.

If previously unidentified materials (suspected of containing asbestos) are identified during the demolition phase, works should cease and the material should be inspected and classified by an experienced consultant. The area should be isolated and barricaded until the material has been classified as non-hazardous or removed and the area cleared.

All asbestos containing materials (and materials presumed to contain asbestos) must be removed in accordance with the regulations and codes outlined in Section 3 and by an experienced asbestos removal contractor.

7.2 Lead in Paint

Deteriorated paint films containing elevated lead levels were identified in the buildings and structures as summarised in Section 6.1 and detailed in the HAZMAT register. All identified deteriorated lead containing paint films must be removed/treated in accordance with the regulations and codes outlined in Section 3 and by an experienced hazardous materials removal contractor.

Control measures as outlined in Section 5.3 should be implemented as soon as reasonably practicable for confirmed deteriorated lead containing paint films.

7.3 Lead in Accumulated Dust

Not identified within the scope and limitations of the report.

7.4 PCB Containing Electrical Equipment

Representative samples of each major type of fluorescent light fitting were visually inspected to determine which lights are fitted with PCB containing ballast capacitors.

Light fittings potentially housing a PCB containing metal capacitors were identified in the buildings and structures as summarised in Section 6.1 and detailed in the HAZMAT register. PCBs are a scheduled waste with strict guidelines regarding transport and handling. PCB work is to be conducted in accordance with the Environmental Protection & Heritage Council's *Polychlorinated Biphenyls Management Plan*, Revised Edition April 2003. This briefly includes:

- Prior to demolition when the power is disconnected, inspect the light fittings;
- Metal PCB containing capacitors are to be removed, placed in plastic lined 200 litre drums and disposed of as PCB Scheduled Waste. Any light fitting that shows signs of oil staining from capacitors is to be disposed of as PCB contaminated;

- Protective clothing including eye protection, PCB resistant gloves and overalls are to be worn;
- Contaminated gloves and disposable coveralls are to be disposed of as PCB contaminated waste; and
- Contractors licenced to transport and handle PCBs must be used for transport and disposal.

If any metal cased capacitors are found during demolition works that were previously unidentified, they should be treated as containing PCBs. Details on storing, conveying and disposing of PCB material or PCB wastes can be found in *Polychlorinated Biphenyls Management Plan*, Environmental Protection & Heritage Council, Revised Edition April 2003.

Control measures as outlined in Section 5.3 should be implemented as soon as reasonably practicable for potential PCB containing metal capacitors.

7.5 SMF Materials

Sources of SMF containing materials were identified in the buildings and structures as summarised in Section 6.1 and detailed in the HAZMAT register. SMF containing materials must be removed in accordance with the national Standard and code outlined in Section 3 and by an experienced hazardous materials removal contractor.

Control measures as outlined in Section 5.3 should be implemented as soon as reasonably practicable for SMF containing materials.

7.6 Ozone Depleting Substances

Not identified within the scope and limitations of the report.

8 LIMITATIONS

The conclusions developed in this report are based on site conditions which existed at the time of the site assessment. They are based on investigation of conditions at specific locations, chosen to be as representative as possible under the given circumstances, and visual observations of the site and vicinity, together with the interpretation of available documents reviewed as described in this report.

Surveys are conducted in a conscientious and professional manner. The nature of the task however, and the likely disproportion between any damage or loss which might arise from the work or reports prepared as a result, and the cost of our services, is such that JKE cannot guarantee that all hazardous building materials have been identified and/or addressed.

Due to the possibility of renovations and additions to the building structures over time, hazardous building materials may have been hidden behind new walls and ceilings. Such areas were inaccessible during the inspection. If any suspect materials are found during further renovation of the buildings, the material should be sent for identification and expert advice sought.

Therefore, while we carry out the work to the best of our ability, we totally exclude any loss or damages which may arise from services we have provided to our client and/or any other associated parties.

Unless specifically noted, the survey did not cover:

- Hidden and/or inaccessible locations such as in or under concrete slabs, wall cavities, hidden storage areas and the like;
- Lift wells and inaccessible/unidentified shafts, cavities and the like;
- Air conditioning, heating, mechanical, electrical or other equipment;
- General exterior ground surfaces and subsurface areas e.g. asbestos in fill/soil;
- Materials dumped, hidden, or otherwise placed in locations which one could not reasonably anticipate;
- Materials other than normal building fabric, materials in laboratories or special purpose facilities and building materials that cannot be reasonably and safely assessed without assistance;
- Areas where access was limited during the time of the site inspection as outlined in Section 6; and
- Materials other than asbestos, lead, PCBs and SMF are generally outside the scope as identification can require specialised analysis/inspection techniques.

Where other potentially hazardous materials are identified these are normally reported on to the best of the consultant's ability. Analysis is not normally included and there is no guarantee that all such materials have been identified and/or addressed.

All work conducted and reports produced by JKE are prepared for a particular Client's objective and are based on a specific scope, conditions and limitations, as agreed upon between JKE and the Client. Information and/or report(s) prepared by JKE may therefore not be suitable for any use other than the intended objective. No parties other than the Client should use any information and/or report(s) without first conferring with JKE.



Before passing on to a third party any information and/or report(s) prepared by JKE, the Client is to inform fully the third party of the objective and scope, and all limitations and conditions, including any other relevant information which applies to the information and/or report(s) prepared by JKE.

It is the responsibility of third parties to investigate fully to their satisfaction if any information and/or report(s) prepared by JKE are suitable for a specific objective. The report(s) and/or information produced by JKE should not be reproduced and/or presented/reviewed except in full.

This report has been prepared for the particular project described and no responsibility is accepted for the use of any part of this report in any other context or for any other purpose. Copyright in this report is the property of JKE. JKE has used a degree of care, skill and diligence normally exercised by consulting engineers in similar circumstances and locality. No other warranty expressed or implied is made or intended. Subject to payment of all fees due for the investigation, the client alone shall have a licence to use this report.

If you have any questions concerning the contents of this report please do not hesitate to contact us.



Important Information About This Report

These notes have been prepared by JKE to assist with the assessment and interpretation of this report.

The Report is based on a Unique Set of Project Specific Factors

This report has been prepared in response to specific project requirements as stated in the JKE proposal document which may have been limited by instructions from the client. This report should be reviewed, and if necessary, revised if any of the following occur:

- The defined subject site is increased or sub-divided; or
- Ownership of the site changes.

JKE will not accept any responsibility whatsoever for situations where one or more of the above factors have changed since completion of the assessment. If the subject site is sold, ownership of the assessment report should be transferred by JKE to the new site owners who will be informed of the conditions and limitations under which the assessment was undertaken. No person should apply an assessment for any purpose other than that originally intended without first conferring with the consultant.

Misinterpretation of Site Assessments by Design Professionals

Costly problems can occur when other design professionals develop plans based on misinterpretation of an assessment report. To minimise problems associated with misinterpretations, the environmental consultant / asbestos assessor should be retained to work with appropriate professionals to explain relevant findings and to review the adequacy of plans and specifications relevant to hazardous building materials.

Read Responsibility Clauses Closely

Because an environmental site assessment is based extensively on judgement and opinion, it is necessarily less exact than other disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, model clauses have been developed for use in written transmittals. These are definitive clauses designed to indicate consultant responsibility. Their use helps all parties involved recognise individual responsibilities and formulate appropriate action. Some of these definitive clauses are likely to appear in the environmental site assessment, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to any questions.



Appendix A: Report Figures



AERIAL IMAGE SOURCE: MAPS.AU.NEARMAP.COM



Title:		SITE LOCATION PLAN	
Location:		2 MARQUIS STREET, GUNNEDAH, NSW	
Project No:		E35091BT	Figure No: 1
JKEnvironments			



This plan should be read in conjunction with the Environmental report.












Appendix B: Hazardous Building Materials Register




GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU01 - Education Centre											
ASBESTOS MATERIALS											
External, eave linings, all elevations	Flat fibre cement sheet	GU01/ASB02	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
Internal, hallway and kitchen, floor coverings	Vinyl sheeting - beige coloured	GU01/ASB01	No asbestos detected: Synthetic mineral fibres detected	-	-	-	-	-	-	-	-
SMF MATERIALS											
Internal, hallway and kitchen, floor coverings	Vinyl sheeting - beige coloured	GU01/ASB01	No asbestos detected: Synthetic mineral fibres detected	30m ²		Non-friable	Full Access	NA	Good Condition	Low	C5, C6, C7
Internal, kitchen cupboard, water heater	Internal insulation	NA - Visually inspected	Assumed to contain SMF	1 Unit		Non-friable	No Access	NA	Good Condition	Very Low	C5, C6, C7




Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU01 - Education Centre											
SMF MATERIALS											
Internal, roof space, underside of roof	Foil backed insulation	NA - Visually inspected	Assumed to contain SMF	30m ²		Non-friable	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
LEAD IN PAINT											
External, eaves, awnings and timber framework	Peeling Cream Paint	GU01/LP1	<0.005% (less than the criteria of 0.1%)	-	-	-	-	-	-	-	-
External, timber and metal handrails	Peeling Green Paint	GU01/LP2	0.068% (less than the criteria of 0.1%)	-	-	-	-	-	-	-	-
LEAD IN ACCUMULATED DUST											
Internal, ceiling & roof space	Settled dust	GU01/LD1	0.089mg/m ² (less than the adopted criteria of 8mg/m ²)	-	-	-	-	-	-	-	-
PCB CONTAINING ELECTRICAL EQUIPMENT											
Internal, ceilings throughout	Single and twin tube fluorescent light fittings	NA - visually inspected	Of an age indicative of housing PCB containing capacitors	5+ Units		NA	Restricted Access	NA	Good Condition	Very Low	C8
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											

GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU03 - General Ward											
ASBESTOS MATERIALS											
External, emergency, northern eaves	Flat fibre cement sheet	GU03/AS01	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
External, emergency, northern eaves, north-western corner, ground surface	Fibre cement debris	Same as GU03/AS01	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
External, northern and southern wall, eaves	A) Flat fibre cement sheet B) Paint	GU03/AS02	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	80m ²		Non-friable	Restricted Access	Yes	Low Damage	Low	C3,C5, C6, C7
External, entrance, awning lining	A) Flat fibre cement sheet B) Paint	Same as GU03/AS02	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	2m ²		Non-friable	Restricted Access	Yes	Good Condition	Very Low	C5, C6, C7
External, northern eaves, north-eastern corner, ground surface	A) Flat fibre cement sheet B) Paint	Same as GU03/AS02	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	<1m ²		Non-friable	Full Access	No	Medium Damage	Medium	C3,C5, C6, C7




Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU03 - General Ward											
ASBESTOS MATERIALS											
Internal, walls, waterpipes	Rope Lagging	NA - No access to sealed wall cavities	Assumed to contain asbestos	>100lm	No Photograph	Friable	No Access	NA	NA	High	C4, C5, C6, C7
Internal, throughout, imaging, floor covering	Vinyl sheeting - patterned cream coloured	GU03/AS03	No asbestos detected: Synthetic mineral fibres detected	-	-	-	-	-	-	-	-
Internal, Emergency Department, toilet, floor covering	Vinyl sheeting - patterned grey coloured	GU03/AS04	No asbestos detected: Synthetic mineral fibres detected	-	-	-	-	-	-	-	-
Internal, Day Surgery, floor covering	Vinyl sheeting - patterned white coloured	GU03/AS05	No asbestos detected: Synthetic mineral fibres detected	-	-	-	-	-	-	-	-
Internal, Ward 4, floor covering	Vinyl sheeting - red/brown coloured	GU03/AS06	No asbestos detected: Synthetic mineral fibres detected	-	-	-	-	-	-	-	-
Internal, south-eastern hallway, electrical cupboard	Electrical backing board	GU03/AS07	Chrysotile asbestos detected	1 Unit		Non-Friable	Restricted Access	No	Good Condition	Very Low	C5, C6, C7,



Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU03 - General Ward											
SMF MATERIALS											
Internal, throughout, imaging, floor covering	Vinyl sheeting - patterned cream coloured	GU03/AS03	No asbestos detected: Synthetic mineral fibres detected	200m ²		Non-Friable	Full Access	NA	Good Condition	Low	C5, C6, C7
Internal, Emergency Department, toilet, floor covering	Vinyl sheeting - patterned grey coloured	GU03/AS04	No asbestos detected: Synthetic mineral fibres detected	150m ²		Non-friable	Full Access	NA	Good Condition	Low	C5, C6, C7
Internal, Day Surgery, floor covering	Vinyl sheeting - patterned white coloured	GU03/AS05	No asbestos detected: Synthetic mineral fibres detected	300m ²		Non-Friable	Full Access	NA	Good Condition	Low	C5, C6, C7


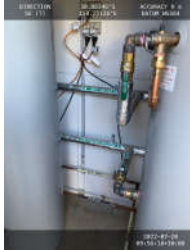
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU03 - General Ward											
SMF MATERIALS											
Internal, Ward 4, floor covering	Vinyl sheeting - red/brown coloured	GU03/AS06	No asbestos detected: Synthetic mineral fibres detected	200m ²		Non-friable	Full Access	NA	Good Condition	Low	C5, C6, C7,
Internal, ceiling space, air-conditioning	Insulation to ductwork	NA - Visually inspected	Assumed to contain SMF	>100lm		Non-friable	No Access	NA	Good Condition	Very Low	C5, C6, C7
Internal, link way corridor, ceiling space	Foil backed insulation	NA - Visually inspected	Assumed to contain SMF			Non-friable	No Access	NA	Good Condition	Very Low	C5, C6, C7




Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
Location											
SMF MATERIALS											
Internal, subfloor, insulation to pipes under the General Ward	Insulation to ductwork	NA - Visually inspected	Assumed to contain SMF	>100lm		Non-friable	No Access	NA	Good Condition	Very Low	C5, C6, C7
Internal, subfloor, various locations	Insulation batts	NA - Visually inspected	Assumed to contain SMF			Non-friable	No Access	NA	Good Condition		
Internal, ceiling space, upper layer	Insulation batts	NA - Visually inspected	Assumed to contain SMF			Non-friable	No Access	NA	Good Condition		

Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU03 - General Ward											
LEAD IN PAINT											
No deteriorated paint systems were identified within the scope of the survey at the time of the inspection.											
LEAD IN ACCUMULATED DUST											
No settled dust was identified within the scope of the survey at the time of the inspection.											
PCB CONTAINING ELECTRICAL EQUIPMENT											
No electrical equipment suspected of housing PCB containing capacitors were identified within the scope of the survey at the time of the inspection.											
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											




GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU04 - Obstetrics											
ASBESTOS MATERIALS											
External, eave linings, all elevations	A) Flat fibre cement sheet B) Paint	GU04/ASB04	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	40m ²		Non-Friable	Restricted Access	No	Good Condition	Very Low	C5, C6, C7
External, entrance, ceiling lining	A) Flat fibre cement sheet B) Paint	Same as GU04/ASB04	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	3m ²		Non-friable	Restricted Access	No	Good Condition	Very Low	C5, C6, C7
External subfloor, pipework	Pipe Lagging	Same as GU05/AS03	Amosite asbestos detected	>100lm		Friable	No Access	Yes	Medium Damage	Medium	C1, C3, C5, C6, C7




Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU04 - Obstetrics											
ASBESTOS MATERIALS											
External, subfloor, soil contamination throughout area	Insulation Debris	Same as GU05/AS03	Amosite asbestos detected	>5m ²		Friable	Restricted Access	Yes	High Damage	High	C1, C3, C5, C6, C7
External, eastern wall, ground surface	Fibre Cement Debris	GU04/ASB02	Chrysotile asbestos detected: Organic fibres detected	<1m ²	No Photograph	Non-friable	Full Access	No	Medium Damage	Medium	C3, C5, C6, C7
External, eastern wall, cladding	Moulded Fibre Cement Sheeting	GU04/ASB01	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
External, eastern wall, door to subfloor access	Flat fibre cement sheet	GU04/ASB03	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
External, electrical distribution board	Electrical backing board	NA - electrical hazard	Assume to contain asbestos	<1m ²		Non-Friable	Restricted Access	No	Good Condition	Very Low	C5, C6, C7
Internal, Wards, floor covering	Vinyl sheeting - patterned light grey coloured	GU04/ASB05	No asbestos detected: Synthetic mineral fibres detected	-	-	-	-	-	-	-	-
Internal, hallways and offices, floor covering - upper layer	Vinyl sheeting - dark green coloured	GU04/ASB06	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-

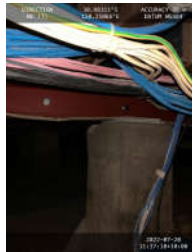
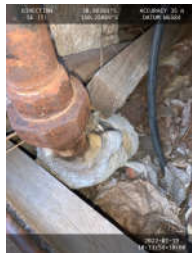

Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU04 - Obstetrics											
ASBESTOS MATERIALS											
Internal, hallways and offices, floor covering - lower layer	Vinyl sheeting - light green coloured	GU04/ASB07	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
Internal, Pan Room, floor covering	Vinyl floor tiles - patterned grey	GU04/ASB08	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
External, Maternity Courtyard, northern, eastern and western eaves	A) Flat fibre cement sheet B) Paint	GU04/ASB09	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	20m ²		Non-friable	Restricted Access	No	Good Condition	Very Low	C5, C6, C7
External, Maternity courtyard, southern eaves	Flat fibre cement sheet	GU04/ASB10	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
SMF MATERIALS											
External and Internal, plant rooms, pipework	Wrapped insulation	Same as GU05/AS04	No asbestos detected: Synthetic mineral fibres detected: Organic fibres detected	<1m ²		Friable	Restricted Access	NA	Low Damage	Medium	C5, C6, C7
External, subfloor, room GU0400022, pipework	Wrapped insulation	NA - Visually inspected	Assumed to contain SMF	10m ²	No Photograph	Non-friable	Restricted Access	NA	Medium Damage	Medium	C5, C6, C7



Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU04 - Obstetrics											
SMF MATERIALS											
External, subfloor, pipework	Wrapped insulation	NA - Visually inspected	Assumed to contain SMF	>300lm		Non-Friable	Restricted Access	NA	Medium Damage	Medium	C1, C3, C5, C6, C7
Internal, Wards, floor covering	Vinyl sheeting - patterned light grey coloured	GU04/ASB05	No asbestos detected: Synthetic mineral fibres detected	120m ²		Non-friable	Full Access	NA	Good Condition	Low	C5, C6, C7
External / Internal, plant rooms, water heaters	Internal Insulation	NA - Visually inspected	Assumed to contain SMF	3 Units		Non-friable	No access	NA	Good Condition	Very Low	C5, C6, C7


Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU04 - Obstetrics											
LEAD IN PAINT											
No deteriorated paint systems were identified within the scope of the survey at the time of the inspection.											
LEAD IN ACCUMULATED DUST											
No settled dust was identified within the scope of the survey at the time of the inspection.											
PCB CONTAINING ELECTRICAL EQUIPMENT											
No electrical equipment suspected of housing PCB containing capacitors were identified within the scope of the survey at the time of the inspection.											
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											


GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU05 - Administration											
ASBESTOS MATERIALS											
External, gable ends	Flat fibre cement sheet	GU05/AS05	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
Internal, ceiling lining above false ceiling	Flat fibre cement sheet	NA - height restriction	Assumed to contain asbestos	25m ²		Non-friable	Restricted Access	No	Good Condition	Very Low	C4, C5, C6, C7
Internal, GU0500015, corridor ceiling lining	Flat fibre cement sheet	NA - height restriction	Assumed to contain asbestos	4m ²		Non-Friable	Restricted Access	Yes	Good Condition	Very Low	C4, C5, C6, C7
Internal, subfloor, heating pipes	Wrapped insulation	GU05/AS03	Amosite asbestos detected	>500lm		Friable	Restricted Access	No	Medium Damage	High	C1, C2, C3, C5, C6, C7


Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU05 - Administration											
ASBESTOS MATERIALS											
Internal, walls, pipework	Rope Lagging	NA - No access to sealed wall cavities	Assumed to contain asbestos	>100lm	No Photograph	Friable	No Access	NA	NA	High	C4, C5, C6, C7
External, north wall, entrance ceiling, infill panels	A) Flat fibre cement sheet B) Paint	GU05/AS01	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	80m ²		Non-friable	Restricted Access	No	Good Condition	Very Low	C5, C6, C7
External, north wall, upper wall cladding	A) Flat fibre cement sheet B) Paint	GU05/AS02	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	15m ²		Non-Friable	Restricted Access	No	Good Condition	Very Low	C5, C6, C7
External, north wall, entrance, fascia boards	A) Flat fibre cement sheet B) Paint	Same as GU05/AS01	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	4m ²		Non-friable	Restricted Access	No	Good Condition	Very Low	C5, C6, C7



Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU05 - Administration											
ASBESTOS MATERIALS											
Internal, subfloor, heating pipes	Wrapped insulation	GU05/AS04	No asbestos detected: Synthetic mineral fibres detected: Organic fibres detected	-	-	-	-	-	-	-	-
External, administration courtyard, door infill panel	Flat fibre cement sheet	GU05/AS06	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
Internal, subfloor, brick foundations, packers	Flat fibre cement sheet	NA - No access	Assume to contain asbestos	>5m ²		Non-friable	Restricted Access	No	Low Damage	Low	C3, C4, C5, C6, C7
SMF MATERIALS											
Internal, subfloor, heating pipes	Rope wrapped insulation	GU05/AS04	No asbestos detected: Synthetic mineral fibres detected: Organic fibres detected	>500lm		Friable	Restricted Access	NA	High Damage	High	C5, C6, C7
Internal, ceiling space, air conditioning duct work	Insulation to ductwork	NA - Visually inspected	Assumed to contain SMF	>100m ²		Non-friable	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7



Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU05 - Administration											
SMF MATERIALS											
Internal, ceiling space	Insulation batts	NA - Visually inspected	Assumed to contain SMF	>300m ²		Non-friable	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
Internal, ceiling space, sarking	Foil backed insulation	NA - Visually inspected	Assumed to contain SMF	>300m ²		Non-friable	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
LEAD IN PAINT											
External, walls	Peeling cream Paint	GU05/LP1	0.04% (less than the criteria of 0.1%)	-	-	-	-	-	-	-	-
Internal, walls	Peeling cream Paint	GU05/LP3	12% (greater than the criteria of 0.1%)	>300m ²	No Photograph	NA	Restricted Access	NA	Good Condition	Very Low	C8

Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU05 - Administration											
LEAD IN PAINT											
Internal, Store Area, corridor ceiling lining	Peeling cream Paint	GU05/LP2	0.11% (greater than the criteria of 0.1%)	>80m ²		NA	Restricted Access	NA	Low Damage	Low	C8
LEAD IN ACCUMULATED DUST											
Internal, ceiling space, upper surface	Settled dust	GU05/LD1	1.44mg/m ² (less than the adopted criteria of 8mg/m ²)	-	-	-	-	-	-	-	-
PCB CONTAINING ELECTRICAL EQUIPMENT											
No electrical equipment suspected of housing PCB containing capacitors were identified within the scope of the survey at the time of the inspection.											
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											

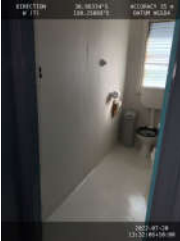
GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU06 - Community Health											
ASBESTOS MATERIALS											
Internal, walls, waterpipes	Rope Lagging	NA - No access	Assumed to contain asbestos	>100lm	No Photograph	Friable	No Access	NA	NA	High	C4, C5, C6, C7
External, eastern wall, garden bed, ground surface	Fibre cement debris	Same as GU06/AS01	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
External, eaves surrounding	Flat fibre cement sheet	GU06/AS01	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
External, outside toilets, wall and ceiling lining	Flat fibre cement sheet	GU06/AS02	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
SMF MATERIALS											
Internal, ceiling space, air conditioning	Ducted Insulation	NA - Visually Inspected	Assumed to contain SMF	80lm		Non-Friable	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
LEAD IN PAINT											
External, verandah, infill panels	Peeling Cream Paint	GU06/LP01	0.094% (less than the criteria of 0.1%)	-	-	-	-	-	-	-	-
External, timber fascia boards	Peeling Green Paint	GU06/LP02	0.052% (less than the criteria of 0.1%)	-	-	-	-	-	-	-	-



Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU06 - Community Health											
LEAD IN ACCUMULATED DUST											
Internal, ceiling space, upper surface	Settled dust	GU06/LD1	0.41mg/m ² (less than the adopted criteria of 8 mg/m ²)	-	-	-	-	-	-	-	-
PCB CONTAINING ELECTRICAL EQUIPMENT											
Internal / External, offices and toilets	Single and twin tube fluorescent light fittings	NA - Visually inspected	Of an age indicative of housing PCB containing capacitors	>5 Units		NA	Restricted Access	NA	Good Condition	Very Low	C10
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											



GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU07 - Dental											
ASBESTOS MATERIALS											
External, eave linings, all elevations	A) Flat fibre cement sheet B) Paint	GU07/ASB01	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	30m ²		Non-Friable	Restricted Access	No	Low Damage	Low	C3, C5, C6, C7
Internal, Room GU0700006, beneath grey vinyl floor sheeting.	A) Red Vinyl Cement Tile Remnants B) Adhesive	GU07/ASB05	A) Chrysotile asbestos detected: B) No Asbestos Detected	40m ²		Non-friable	Restricted Access	No	Low Damage	Low	C2, C3, C5, C6, C7
Internal, walls, water pipes	Rope Lagging	NA - no access	Assumed to contain asbestos	>100lm	No photograph	Friable	No Access	NA	NA	High	C4, C5, C6, C7
External, above back wall, wall cladding	Moulded fibre cement sheeting	GU07/ASB02	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-





Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU07 - Dental											
ASBESTOS MATERIALS											
Internal, GU0700013, ceiling lining	A) Flat fibre cement sheet B) Paint	GU07/ASB03	A) Chrysotile asbestos detected: Amosite asbestos detected: Crocidolite asbestos detected: B) No asbestos detected	15m ²		Non-Friable	Restricted Access	No	Low Damage	Low	C5, C6, C7
Internal, GU0700013, window sash	Rope	GU07/ASB04	No asbestos detected: Synthetic mineral fibres detected	-	-	-	-	-	-	-	-
Internal, Dental Clinic, hallway, ceiling lining	Flat fibre cement sheet	NA - height restriction	Assumed to contain Asbestos	20m ²		Non-Friable	Restricted Access	Yes	Good Condition	Very Low	C5, C6, C7
SMF MATERIALS											
Internal, GU0700013, window sash	Rope	GU07/ASB04	No asbestos detected: Synthetic mineral fibres detected	2lm	No Photograph	Friable	Limited Access	NA	Low Damage	Medium	C5, C6, C7




Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU07 - Dental											
SMF MATERIALS											
External, wall (within cavity)	Rope Lagging	NA - No access	Assumed to contain SMF	>100lm	No Photograph	NA	No Access	NA	Good Condition	Very Low	C5, C6, C7
Internal, ceiling space, air-conditioning	Ducted Insulation	NA - Visually Inspected	Assumed to contain SMF	50lm	No Photograph	NA	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
Internal, ceiling space	Insulation batts	NA - Visually Inspected	Assumed to contain SMF	60m ²	No Photograph	NA	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7


Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU07 - Dental											
LEAD IN PAINT											
External, walls	Peeling cream paint	Same as GU05/LP1	0.04% (less than the criteria of 0.1%)	-	-	-	-	-	-	-	-
Internal, walls	Peeling cream paint	Same as GU05/LP3	0.11% (greater than the criteria of 0.1%)	>300m ²	No photograph	NA	Restricted Access	NA	Low Damage	Low	C8
Internal, toilet in kitchen corridor	Peeling Blue / Cream Paint	GU07/LP3	6.2% (greater than the criteria of 0.1%)	20m ²		NA	Full Access	NA	Low Damage	Medium	C8
Internal, ceiling (fibre cement sheeting and plaster)	Peeling white paint	GU07/LP1	8% (greater than the criteria of 0.1%)	200m ²		NA	Full Access	NA	Low Damage	Medium	C8


Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU07 - Dental											
LEAD IN PAINT											
Internal, walls	Peeling cream paint	GU07/LP2	6.2% (greater than the criteria of 0.1%)	100m ²		NA	Full Access	NA	Low Damage	Medium	C8
LEAD IN ACCUMULATED DUST											
Internal, ceiling space	Settled dust	GU07/LD1	0.53mg/m ² (less than the adopted criteria of 8mg/m ²)	-	-	-	-	-	-	-	-
PCB CONTAINING ELECTRICAL EQUIPMENT											
Internal, Dental clinic hallway	Single tube fluorescent light fittings	NA - Visually Inspected	Of an age indicative of housing PCB containing capacitors	2 Units		NA	Restricted Access	NA	Good Condition	Very Low	C10
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											




GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU08 - Kitchen											
ASBESTOS MATERIALS											
External, eave linings to the older section of the building	Flat fibre cement sheet	GU08/ASB03	Chrysotile asbestos detected: Amosite asbestos detected	20m ²		Non-Friable	Restricted Access	No	Low Damage	Low	C3, C5, C6, C7
External, wall cladding	Flat fibre cement sheet	GU08/ASB01	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
Internal, walls, water pipe insulation	Rope lagging	NA - No Internal Wall Access	Assumed to contain asbestos	>100lm	No Photograph	Friable	No Access	NA	NA	High	C4, C5, C6, C7
Internal, Room GU800006, floor covering (dark green)	A) Grey vinyl floor tiles B) Adhesive	GU08/ASB07	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	30m ²		Non-Friable	Limited Access	No	Good Condition	Low	C3, C5, C6, C7




Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU08 - Kitchen											
ASBESTOS MATERIALS											
Internal, Room GU800006, floor covering (light green)	A) Grey vinyl floor tiles B) Adhesive	GU08/ASB09	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	30m ²		Non-Friable	Limited Access	No	Good Condition	Low	C3, C5, C6, C7
Internal, Rooms GU800001, GU800007 and GU800008, ceiling lining	A) Flat fibre cement sheet B) Paint	GU08/ASB04	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	200m ²		Non-Friable	Limited Access	No	Good Condition	Low	C3, C5, C6, C7
Internal, Rooms GU800001, GU800007 and GU800008, wall lining	A) Flat fibre cement sheet B) Paint	GU08/ASB05	A) Chrysotile asbestos detected: Amosite asbestos detected: Crocidolite asbestos detected: B) No asbestos detected	300m ²		Non-Friable	Limited Access	No	Good Condition	Low	C3, C5, C6, C7
Internal, Shower Room GU0800006, wall lining	A) Flat fibre cement sheet B) Paint	Same as GU08/ASB05	A) Chrysotile asbestos detected: Amosite asbestos detected: Crocidolite asbestos detected: B) No asbestos detected	30m ²		Non-Friable	Limited Access	No	Good Condition	Low	C3, C5, C6, C7




Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU08 - Kitchen											
ASBESTOS MATERIALS											
Internal, linen store, flammable store and switchboard room, wall lining	A) Flat fibre cement sheet B) Paint	GU08/ASB02	A) Chrysotile asbestos detected: Organic fibres detected: B) No asbestos detected	200m ²		Non-Friable	Restricted Access	No	Low Damage	Low	C3, C5, C6, C7
External / Internal, subfloor	Fibre Cement Debris	Same as GU08/ASB01	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
Internal, kitchen, floor covering	Mottled Yellow Vinyl Floor Sheeting	GU08/ASB06	No asbestos detected: Synthetic mineral fibres detected	-	-	-	-	-	-	-	-
SMF MATERIALS											
External / Internal, wall cavities	Insulation batts	NA - Visually Inspected	Assumed to contain SMF	200m ²		Non-Friable	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
Internal, kitchen, floor covering	Vinyl sheeting - patterned yellow coloured	GU08/ASB06	No asbestos detected: Synthetic mineral fibres detected	30m ²		Non-Friable	Limited Access	NA	Good Condition	Low	C5, C6, C7


Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU08 - Kitchen											
SMF MATERIALS											
External (standalone) plant room, water heaters	Internal Insulation	NA - Visually Inspected	Assumed to contain SMF	2 Units		Non-Friable	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
LEAD IN PAINT											
External, walls	Peeling cream paint	Same as GU05/LP1	0.04% (less than the criteria of 0.1%)	-	-	-	-	-	-	-	-
Internal, walls	Peeling cream paint	Same as GU05/LP3	12% (greater than the criteria of 0.1%)	>300m ²	No photograph	NA	Restricted Access	NA	Good Condition	Very Low	C8
Internal, kitchen throughout, walls	Peeling light blue paint	GU08/LP01	4.3% (greater than the criteria of 0.1%)	250m ²		NA	Limited Access	NA	Low Damage	Low	C8
LEAD IN ACCUMULATED DUST											
Internal, ceiling space	Settled dust	GU08/LD01	0.56mg/m ² (greater than the adopted criteria of 8mg/m ²)	-	-	-	-	-	-	-	-


Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU08 - Kitchen											
PCB CONTAINING ELECTRICAL EQUIPMENT											
Internal, ceiling throughout	Single and twin tube fluorescent light fittings	NA - Visually Inspected	Of an age indicative of housing PCB containing capacitors	20+ Units		NA	Restricted Access	NA	Good Condition	Very Low	C10
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											

GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU09 - Staff Quarters											
ASBESTOS MATERIALS											
External, eave linings, all elevations	A) Flat fibre cement sheeting B) Paint	GU09/AS04	A) Chrysotile asbestos detected: Amosite asbestos detected: B) No asbestos detected	40m ²		Non-Friable	Limited Access	Yes	Good Condition	Very Low	C5, C6, C7
Internal, kitchen area room GU0900004, ceiling lining	A) Flat fibre cement sheeting B) Paint	Same as GU09/AS01	A) Chrysotile asbestos detected: Amosite asbestos detected: B) No asbestos detected	20m ²		Non-friable	Limited Access	Yes	Good Condition	Very Low	C5, C6, C7
Internal, Ceiling space	Insulation debris	GU09/AS03	No asbestos detected: Synthetic mineral fibres detected: Organic fibres detected	-	-	-	-	-	-	-	-
Internal, kitchen area room GU0900004, spandrels above windows	A) Flat fibre cement sheeting B) Paint	GU09/AS01	A) Chrysotile asbestos detected: Amosite asbestos detected: B) No asbestos detected	10m ²		Non-Friable	Limited Access	Yes	Good Condition	Very Low	C5, C6, C7




Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU09 - Staff Quarters											
ASBESTOS MATERIALS											
Internal, Laundry Area GU090004	A) Flat fibre cement sheeting B) Paint	Same as GU09/AS01	A) Chrysotile asbestos detected: Amosite asbestos detected: B) No asbestos detected	10m ²		Non-Friable	Limited Access	Yes	Good Condition	Very Low	C5, C6, C7
Internal, ceiling space, pipework	Lagging	GU09/AS02	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
SMF MATERIALS											
Internal, Ceiling space	Insulation debris	GU09/AS03	No asbestos detected: Synthetic mineral fibres detected: Organic fibres detected	100m ²		Friable	No Access	NA	High Damage	High	C5, C6, C7
External, south wall, hot water unit	Internal Insulation	Visually Inspected	Assumed to Contain SMF	2 Units		Non-Friable	No Access	NA	Good Condition	Very Low	C5, C6, C7




Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU09 - Staff Quarters											
LEAD IN PAINT											
External, windows surrounding	Peeling White Paint	GU09/LP01	3.6% (greater than the criteria of 0.1%)	15m ²		NA	Limited Access	NA	Low Damage	Low	C8
External, Timber Gutters Surrounding	Peeling Green Paint	GU09/LP02	1.7% (greater than the criteria of 0.1%)	10m ²		NA	Limited Access	NA	Low Damage	Low	C8
LEAD IN ACCUMULATED DUST											
Internal, ceiling space	Settled dust	GU09/LD1	0.14mg/m ² (less than the adopted criteria of 8mg/m ²)	-	-	-	-	-	-	-	-
PCB CONTAINING ELECTRICAL EQUIPMENT											
Internal, ceilings throughout	Single tube fluorescent light fittings	NA - Visually Inspected	Of an age indicative of housing PCB containing capacitors	20+ Units		NA	Restricted Access	NA	Good Condition	Very Low	C10
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											


GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU010 - Day Care Centre											
ASBESTOS MATERIALS											
External, eaves	Flat fibre cement sheeting	GU10/AS01	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
External, North-western corner, ground surface, services pit	Moulded fibre cement	GU10/AS02	No asbestos detected: Synthetic mineral fibres detected	-	-	-	-	-	-	-	-
Internal, skylight, panelling	Flat fibre cement sheeting	NA- Height Restricted	Assumed to contain asbestos	12m ²		Non-Friable	Restricted Access	No	Good Condition	Very Low	C5, C6, C7,
Internal, Hallway Cupboard, ceiling lining	Flat fibre cement sheeting	GU10/AS03	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
Internal, kitchen, floor covering	Vinyl sheeting - green coloured	GU10/AS04	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
SMF MATERIALS											
Internal, roof space, underside of roof	Foil backed insulation	NA - Visually Inspected	Assumed to Contain SMF	200m ²	No Photograph	NA	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7



Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU010 - Day Care Centre											
LEAD IN PAINT											
External, northern timber clad wall	Peeling white paint	GU10/LP01	0.01% (less than the criteria of 0.1%)	-	-	-	-	-	-	-	-
LEAD IN ACCUMULATED DUST											
Internal, roof space, upper surface	Settled dust	GU10/LD1	0.078mg/m ² (less than the adopted criteria of 8mg/m ²)	-	-	-	-	-	-	-	-
PCB CONTAINING ELECTRICAL EQUIPMENT											
Internal, throughout	Single tube fluorescent light fittings	NA - Visually Inspected	Of an age indicative of housing PCB containing capacitors	5+ Units		NA	Restricted Access	NA	Good Condition	Very Low	C10
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											


GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU11 - Gazebo											
ASBESTOS MATERIALS											
Internal, upper infill panels	Flat fibre cement sheeting	GU11/AS01	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
Internal, ceiling lining	Flat fibre cement sheeting	GU11/AS02	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
External, eave lining	Flat fibre cement sheeting	Same as GU11/AS02	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
SMF MATERIALS											
No suspected SMF materials were identified within the scope of the survey at the time of the inspection.											
LEAD IN PAINT											
No deteriorated paint systems were identified within the scope of the survey at the time of the inspection.											
LEAD IN ACCUMULATED DUST											
No settled dust was identified within the scope of the survey at the time of the inspection.											
PCB CONTAINING ELECTRICAL EQUIPMENT											
No electrical equipment suspected of housing PCB containing capacitors were identified within the scope of the survey at the time of the inspection.											
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											

GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU12 - Workshops											
ASBESTOS MATERIALS											
External, south-eastern corner, ground surface	Fibre cement debris	GU12/ASB01	Chrysotile asbestos detected: Amosite asbestos detected: Crocidolite asbestos detected	<1m ²		Non-Friable	Full Access	No	Medium Damage	Medium	C3, C5, C6, C7
External, western wall, old furnace and stack (No access)	Potential Asbestos Lining	NA - No access	Assumed to contain Asbestos	-		NA	No Access	NA	NA	Very low	C4, C5, C6, C7
Internal, bathroom ceiling, infill panels	Fibre Cement Sheeting	GU12/ASB02	Chrysotile asbestos detected	12m ²		Non-Friable	Restricted Access	No	Good Condition	Low	C5, C6, C7

Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU12 - Workshops											
SMF MATERIALS											
Internal, ceilings throughout	Foil backed insulation	NA - Visually Inspected	Assumed to contain SMF	150m ²		Non-Friable	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
Internal, Bathroom, hot water heater	Internal Insulation	NA - Visually Inspected	Assumed to contain SMF	1 Unit		Non-Friable	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
LEAD IN PAINT											
External, steel columns and downpipes	Peeling Cream Paint	GU12/LP1	0.16% (greater than the criteria of 0.1%)	40lm		NA	Limited Access	NA	Low Damage	Low	C8
LEAD IN ACCUMULATED DUST											
Internal, general surfaces	Settled dust	GU12/LD1	0.28mg/m ² (less than the adopted criteria of 8mg/m ²)	-	-	-	-	-	-	-	-

Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU12 - Workshops											
PCB CONTAINING ELECTRICAL EQUIPMENT											
Internal, rooms throughout	Twin tube florescent light fittings	NA - Visually Inspected	Of an age indicative of housing PCB containing capacitors	20 Units		NA	Restricted Access	NA	Good Condition	Very Low	C10
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											

GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU13 - Mortuary											
ASBESTOS MATERIALS											
External, eave linings, all elevations	Flat fibre cement sheeting	GU13/AS01	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
Internal, floor and lower wall coverings	Vinyl sheeting - beige coloured	GU13/AS02	No asbestos detected: Organic fibres detected	-	-	-	-	-	-	-	-
SMF MATERIALS											
Internal, ceiling space, underside of roof	Foil backed insulation	NA - Visually Inspected	Assumed to contain SMF	40m ²		NA	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
Internal, upper surface of ceiling	Insulation batts	NA - Visually Inspected	Assumed to contain SMF	40m ²		NA	Restricted Access	NA	Good Condition	Very Low	C5, C6, C7
LEAD IN PAINT											
Internal, upper walls	Peeling light blue paint	GU13/LP01	<0.005% (less than the criteria of 0.1%)	-	-	-	-	-	-	-	-
LEAD IN ACCUMULATED DUST											
Internal, roof space	Settled dust	GU13/LD1	0.33mg/m ² (less than the adopted criteria of 8mg/m ²)	-	-	-	-	-	-	-	-

Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU13 - Mortuary											
PCB CONTAINING ELECTRICAL EQUIPMENT											
External, entry ceiling	Single tube fluorescent light fittings	NA - Visually Inspected	Of an age indicative of housing PCB containing capacitors	1 Unit		NA	Restricted Access	NA	Good Condition	Very Low	C10
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											

GUNNEDAH HOSPITAL Hazardous Building Materials Register - JULY 2022											
Location	Material type	Sample ID	Laboratory Result	Approximate Extent	Photograph	Friable / Non-friable	Accessibility	Labelled	Damage / Deterioration	Risk Rating	Control Measures
GU17 - Chapel											
ASBESTOS MATERIALS											
No suspected asbestos containing materials were identified within the scope of the survey at the time of the inspection.											
SMF MATERIALS											
No suspected SMF materials were identified within the scope of the survey at the time of the inspection.											
LEAD IN PAINT											
No deteriorated paint systems were identified within the scope of the survey at the time of the inspection.											
LEAD IN ACCUMULATED DUST											
No settled dust was identified within the scope of the survey at the time of the inspection.											
PCB CONTAINING ELECTRICAL EQUIPMENT											
No electrical equipment suspected of housing PCB containing capacitors were identified within the scope of the survey at the time of the inspection.											
ODS in AEROSOL PROPELLANTS											
No ODS in aerosol propellants were identified within the scope of the survey at the time of the inspection.											



Appendix C: Laboratory Report & COC Documents

CERTIFICATE OF ANALYSIS 301299

Client Details

Client	JK Environments
Attention	Katrina Taylor
Address	PO Box 976, North Ryde BC, NSW, 1670

Sample Details

Your Reference	<u>E35091BT, Gunnedah</u>
Number of Samples	52 Material, 52 Material, 16 Paint, 9 Dust (Swab), 9 Dust (Swab)
Date samples received	25/07/2022
Date completed instructions received	25/07/2022

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	01/08/2022
Date of Issue	01/08/2022
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

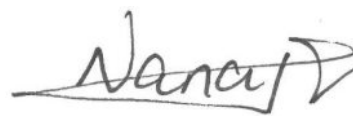
Asbestos Approved By

Analysed by Asbestos Approved Analyst: Wonnies Condos
 Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By

Giovanni Agosti, Group Technical Manager
 Hannah Nguyen, Metals Supervisor
 Lucy Zhu, Asbestos Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

Asbestos ID - materials						
Our Reference	UNITS	301299-1	301299-2	301299-6	301299-7	301299-8
Your Reference		GU01/ASB01	GU01/ASB02	GU03/AS01	GU03/AS02	GU03/AS03
Date Sampled		18/07/2022	18/07/2022	20/07/2022	20/07/2022	20/07/2022
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	20x20x2mm	60x40x5mm	80x50x5mm	35x35x5mm	30x30x2mm
Sample Description	-	Beige vinyl sheet & adhesive	Beige fibre cement sheet & paint	Beige fibre cement sheet & paint	A) Beige fibre cement material B) Paint	Beige vinyl sheet & adhesive
Asbestos ID in materials	-	No asbestos detected Synthetic mineral fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	A) Chrysotile asbestos detected Organic fibres detected B) No asbestos detected	No asbestos detected Synthetic mineral fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	301299-9	301299-10	301299-11	301299-12	301299-14
Your Reference		GU03/AS04	GU03/AS05	GU03/AS06	GU03/AS07	GU04/ASB01
Date Sampled		20/07/2022	20/07/2022	20/07/2022	20/07/2022	20/07/2022
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	40x35x2mm	30x30x2mm	50x50x2mm	20x10x5mm	25x15x5mm
Sample Description	-	Beige vinyl sheet & adhesive	Beige vinyl sheet & adhesive	Beige vinyl tile & adhesive	Black fibre cement material	Beige fibre cement sheet & paint
Asbestos ID in materials	-	No asbestos detected Synthetic mineral fibres detected	No asbestos detected Synthetic mineral fibres detected	No asbestos detected Synthetic mineral fibres detected	Chrysotile asbestos detected	No asbestos detected Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	[NT]	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	301299-15	301299-16	301299-17	301299-18	301299-19
Your Reference		GU04/ASB02	GU04/ASB03	GU04/ASB04	GU04/ASB05	GU04/ASB06
Date Sampled		20/07/2022	20/07/2022	20/07/2022	20/07/2022	20/07/2022
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	80x70x5mm	30x30x6mm	10x10x4mm	25x20x2mm	40x10x2mm
Sample Description	-	Beige fibre cement material	Beige fibre cement material	A) Beige fibre cement material B) Paint	Green vinyl sheet & adhesive	Blue vinyl sheet & adhesive
Asbestos ID in materials	-	Chrysotile asbestos detected	No asbestos detected	A) Chrysotile asbestos detected	No asbestos detected	No asbestos detected
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Synthetic mineral fibres detected	Organic fibres detected
				B) No asbestos detected		
Trace Analysis	-	[NT]	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	301299-20	301299-21	301299-22	301299-23	301299-24
Your Reference		GU04/ASB07	GU04/ASB08	GU04/ASB09	GU04/ASB10	GU05/AS01
Date Sampled		20/07/2022	20/07/2022	20/07/2022	20/07/2022	20/07/2022
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	25x15x2mm	40x30x2mm	10x10x2mm	15x15x2mm	90x40x6mm
Sample Description	-	Blue vinyl sheet & adhesive	Grey vinyl sheet & bituminous adhesive	A) Beige fibre cement material B) Paint	Beige fibre cement material	A) Beige fibre cement material B) Paint
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	A) Chrysotile asbestos detected	No asbestos detected	A) Chrysotile asbestos detected
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
				B) No asbestos detected		B) No asbestos detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	301299-25	301299-26	301299-27	301299-28	301299-29
Your Reference		GU05/AS02	GU05/AS03	GU05/AS04	GU05/AS05	GU05/AS06
Date Sampled		20/07/2022	20/07/2022	20/07/2022	20/07/2022	20/07/2022
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	20x5x5mm	15x15x2mm	70x30x2mm	20x15x2mm	60x50x8mm
Sample Description	-	A) Beige fibre cement material B) Paint	White loose fibrous material	Brown fibrous insulation material	Beige fibre cement material & paint	Beige fibre cement material & paint
Asbestos ID in materials	-	A) Chrysotile asbestos detected Organic fibres detected B) No asbestos detected	Amosite asbestos detected	No asbestos detected Synthetic mineral fibres detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected
Trace Analysis	-	No asbestos detected	[NT]	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	301299-34	301299-35	301299-39	301299-40	301299-41
Your Reference		GU06/AS01	GU06/AS02	GU07/ASB01	GU07/ASB02	GU07/ASB03
Date Sampled		18/07/2022	18/07/2022	20/07/2022	20/07/2022	20/07/2022
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	70x50x5mm	90x55x5mm	5x5x2mm	5x5x2mm	15x15x3mm
Sample Description	-	Beige fibre cement material & paint	Beige fibre cement material & paint	A) Beige fibre cement material B) Paint	Beige fibre cement material & paint	A) Grey fibre cement material B) Paint
Asbestos ID in materials	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	A) Chrysotile asbestos detected Organic fibres detected B) No asbestos detected	No asbestos detected Organic fibres detected	A) Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected B) No asbestos detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	301299-42	301299-43	301299-48	301299-49	301299-50
Your Reference		GU07/ASB04	GU07/ASB05	GU08/ASB01	GU08/ASB02	GU08/ASB03
Date Sampled		20/07/2022	20/07/2022	20/07/2022	20/07/2022	20/07/2022
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	5x2x1mm	30x30x3mm	90x70x5mm	110x70x5mm	120x70x5mm
Sample Description	-	White fibrous material	A) Beige fibre cement material B) Adhesive	Grey fibre cement material & paint	A) Grey fibre cement material B) Paint	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected	A) Chrysotile asbestos detected	No asbestos detected	A) Chrysotile asbestos detected	Chrysotile asbestos detected
		Synthetic mineral fibres detected	B) No asbestos detected	Organic fibres detected	Organic fibres detected B) No asbestos detected	Amosite asbestos detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	[NT]

Asbestos ID - materials						
Our Reference	UNITS	301299-51	301299-52	301299-53	301299-54	301299-55
Your Reference		GU08/ASB04	GU08/ASB05	GU08/ASB06	GU08/ASB07	GU08/ASB09
Date Sampled		20/07/2022	20/07/2022	20/07/2022	20/07/2022	20/07/2022
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	30x25x5mm	15x10x3mm	50x35x3mm	60x40x3mm	40x30x3mm
Sample Description	-	A) Grey fibre cement material B) Paint	A) Grey fibre cement material B) Paint	Beige vinyl sheet & adhesive	A) Grey vinyl tile B) Adhesive	A) Grey vinyl tile B) Adhesive
Asbestos ID in materials	-	A) Chrysotile asbestos detected	A) Chrysotile asbestos detected	No asbestos detected	A) Chrysotile asbestos detected	A) Chrysotile asbestos detected
		Organic fibres detected	Amosite asbestos detected	Synthetic mineral fibres detected	Organic fibres detected	Organic fibres detected
		B) No asbestos detected	Crocidolite asbestos detected B) No asbestos detected		B) No asbestos detected	B) No asbestos detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	301299-58	301299-59	301299-60	301299-61	301299-65
Your Reference		GU09/AS01	GU09/AS02	GU09/AS03	GU09/AS04	GU10/AS01
Date Sampled		18/07/2022	18/07/2022	18/07/2022	18/07/2022	20/07/2022
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	25x20x2mm	30x30x1mm	35x15x2mm	25x10x2mm	30x15x2mm
Sample Description	-	A) Beige fibre cement material B) Paint	Brown fibrous material	White fibrous insulation material	A) Beige fibre cement material B) Paint	Beige fibre cement material & paint
Asbestos ID in materials	-	A) Chrysotile asbestos detected	No asbestos detected	No asbestos detected	A) Chrysotile asbestos detected	No asbestos detected
		Amosite asbestos detected	Organic fibres detected	Synthetic mineral fibres detected	Amosite asbestos detected	Organic fibres detected
		B) No asbestos detected		Organic fibres detected	B) No asbestos detected	
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	301299-66	301299-67	301299-68	301299-71	301299-72
Your Reference		GU10/AS02	GU10/AS03	GU10/AS04	GU11/AS01	GU11/AS02
Date Sampled		20/07/2022	20/07/2022	20/07/2022	19/07/2022	19/07/2022
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	60x60x18mm	40x15x3mm	40x40x4mm	15x15x2mm	25x15x3mm
Sample Description	-	Grey cement material	Grey fibre cement material & paint	Green vinyl sheet & adhesive	Beige fibre cement material & paint	Beige fibre cement material & paint
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
		Synthetic mineral fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials					
Our Reference		301299-73	301299-74	301299-77	301299-78
Your Reference	UNITS	GU12/ASB01	GU12/ASB02	GU13/AS01	GU13/AS02
Date Sampled		18/07/2022	18/07/2022	20/07/2022	20/07/2022
Type of sample		Material	Material	Material	Material
Date analysed	-	27/07/2022	27/07/2022	27/07/2022	27/07/2022
Mass / Dimension of Sample	-	90x80x5mm	2x2x1mm	15x15x3mm	35x15x2mm
Sample Description	-	Grey fibre cement material	Grey fibre cement material	Beige fibre cement material & paint	Beige vinyl sheet
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected Crocidolite asbestos detected	Chrysotile asbestos detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected
Trace Analysis	-	[NT]	[NT]	No asbestos detected	No asbestos detected

Lead in Paint						
Our Reference	UNITS	301299-3	301299-4	301299-30	301299-31	301299-32
Your Reference		GU01/LP1	GU01/LP2	GU05/LP1	GU05/LP2	GU05/LP3
Date Sampled		18/07/2022	18/07/2022	20/07/2022	20/07/2022	20/07/2022
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	01/08/2022	01/08/2022	01/08/2022	01/08/2022	01/08/2022
Date analysed	-	01/08/2022	01/08/2022	01/08/2022	01/08/2022	01/08/2022
Lead in paint	%w/w	<0.005	0.068	0.04	0.11	12

Lead in Paint						
Our Reference	UNITS	301299-36	301299-37	301299-44	301299-45	301299-46
Your Reference		GU06/LP01	GU06/LP02	GU07/LP1	GU07/LP2	GU07/LP3
Date Sampled		18/07/2022	18/07/2022	20/07/2022	20/07/2022	20/07/2022
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	01/08/2022	01/08/2022	01/08/2022	01/08/2022	01/08/2022
Date analysed	-	01/08/2022	01/08/2022	01/08/2022	01/08/2022	01/08/2022
Lead in paint	%w/w	0.094	0.052	6.2	8.0	6.2

Lead in Paint						
Our Reference	UNITS	301299-56	301299-62	301299-63	301299-69	301299-75
Your Reference		GU08/LP01	GU09/LP01	GU09/LP02	GU10/LP01	GU12/LP1
Date Sampled		20/07/2022	18/07/2022	18/07/2022	20/07/2022	18/07/2022
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	01/08/2022	01/08/2022	01/08/2022	01/08/2022	01/08/2022
Date analysed	-	01/08/2022	01/08/2022	01/08/2022	01/08/2022	01/08/2022
Lead in paint	%w/w	4.3	3.6	1.7	0.01	0.16

Lead in Paint		
Our Reference	UNITS	301299-79
Your Reference		GU13/LP01
Date Sampled		20/07/2022
Type of sample		Paint
Date prepared	-	01/08/2022
Date analysed	-	01/08/2022
Lead in paint	%w/w	<0.005

Lead in swab						
Our Reference	UNITS	301299-5	301299-13	301299-33	301299-38	301299-47
Your Reference		GU01/LD1	GU03/LD1	GU05/LD1	GU06/LD1	GU07/LD1
Date Sampled		18/07/2022	20/07/2022	20/07/2022	18/07/2022	20/07/2022
Type of sample		Dust (Swab)	Dust (Swab)	Dust (Swab)	Dust (Swab)	Dust (Swab)
Date prepared	-	29/07/2022	29/07/2022	29/07/2022	29/07/2022	29/07/2022
Date analysed	-	29/07/2022	29/07/2022	29/07/2022	29/07/2022	29/07/2022
Lead in Swabs	µg/swab	8	6	130	37	48

Lead in swab						
Our Reference	UNITS	301299-57	301299-64	301299-70	301299-76	301299-80
Your Reference		GU08/LD01	GU09/LD1	GU10/LD1	GU12/LD1	GU13/LD1
Date Sampled		20/07/2022	18/07/2022	20/07/2022	18/07/2022	20/07/2022
Type of sample		Dust (Swab)	Dust (Swab)	Dust (Swab)	Dust (Swab)	Dust (Swab)
Date prepared	-	29/07/2022	29/07/2022	29/07/2022	29/07/2022	29/07/2022
Date analysed	-	29/07/2022	29/07/2022	29/07/2022	29/07/2022	29/07/2022
Lead in Swabs	µg/swab	50	13	7	25	30

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-020/021/022	Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS.
Metals-020/021/022	Digestion of Dust wipes/swabs and /or miscellaneous samples 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	-			01/08/2022	3	01/08/2022	01/08/2022		01/08/2022	[NT]
Date analysed	-			01/08/2022	3	01/08/2022	01/08/2022		01/08/2022	[NT]
Lead in paint	%w/w	0.005	Metals-020/021/022	<0.005	3	<0.005	<0.005	0	91	[NT]

QUALITY CONTROL: Lead in Paint						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	44	01/08/2022	01/08/2022		[NT]	[NT]
Date analysed	-			[NT]	44	01/08/2022	01/08/2022		[NT]	[NT]
Lead in paint	%w/w	0.005	Metals-020/021/022	[NT]	44	6.2	8.2	28	[NT]	[NT]

Client Reference: E35091BT, Gunnedah

QUALITY CONTROL: Lead in swab						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			29/07/2022	[NT]	[NT]	[NT]	[NT]	29/07/2022	[NT]
Date analysed	-			29/07/2022	[NT]	[NT]	[NT]	[NT]	29/07/2022	[NT]
Lead in Swabs	µg/swab	1	Metals-020/021/022	<1	[NT]	[NT]	[NT]	[NT]	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.
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

Samples 301299-07,17,22,24-25,39,43,49-50,52,54-55,58,61; 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.

SAMPLE RECEIPT ADVICE

Client Details

Client	JK Environments
Attention	Katrina Taylor

Sample Login Details

Your reference	E35091BT, Gunnedah
Envirolab Reference	301299
Date Sample Received	25/07/2022
Date Instructions Received	25/07/2022
Date Results Expected to be Reported	01/08/2022

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	52 Material, 52 Material, 16 Paint, 9 Dust (Swab), 9 Dust (Swab)
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	18
Cooling Method	None
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

ph 02 9910 6200 fax 02 9910 6201

customerservice@envirolab.com.au

www.envirolab.com.au

Sample ID	Asbestos ID - materials	Lead in Paint	Lead in swab
GU01/ASB01	✓		
GU01/ASB02	✓		
GU01/LP1		✓	
GU01/LP2		✓	
GU01/LD1			✓
GU03/AS01	✓		
GU03/AS02	✓		
GU03/AS03	✓		
GU03/AS04	✓		
GU03/AS05	✓		
GU03/AS06	✓		
GU03/AS07	✓		
GU03/LD1			✓
GU04/ASB01	✓		
GU04/ASB02	✓		
GU04/ASB03	✓		
GU04/ASB04	✓		
GU04/ASB05	✓		
GU04/ASB06	✓		
GU04/ASB07	✓		
GU04/ASB08	✓		
GU04/ASB09	✓		
GU04/ASB10	✓		
GU05/AS01	✓		
GU05/AS02	✓		
GU05/AS03	✓		
GU05/AS04	✓		
GU05/AS05	✓		
GU05/AS06	✓		
GU05/LP1		✓	
GU05/LP2		✓	
GU05/LP3		✓	



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Sample ID	Asbestos ID - materials	Lead in Paint	Lead in swab
GU05/LD1			✓
GU06/AS01	✓		
GU06/AS02	✓		
GU06/LP01		✓	
GU06/LP02		✓	
GU06/LD1			✓
GU07/ASB01	✓		
GU07/ASB02	✓		
GU07/ASB03	✓		
GU07/ASB04	✓		
GU07/ASB05	✓		
GU07/LP1		✓	
GU07/LP2		✓	
GU07/LP3		✓	
GU07/LD1			✓
GU08/ASB01	✓		
GU08/ASB02	✓		
GU08/ASB03	✓		
GU08/ASB04	✓		
GU08/ASB05	✓		
GU08/ASB06	✓		
GU08/ASB07	✓		
GU08/ASB09	✓		
GU08/LP01		✓	
GU08/LD01			✓
GU09/AS01	✓		
GU09/AS02	✓		
GU09/AS03	✓		
GU09/AS04	✓		
GU09/LP01		✓	
GU09/LP02		✓	
GU09/LD1			✓



Sample ID	Asbestos ID - materials	Lead in Paint	Lead in swab
GU10/AS01	✓		
GU10/AS02	✓		
GU10/AS03	✓		
GU10/AS04	✓		
GU10/LP01		✓	
GU10/LD1			✓
GU11/AS01	✓		
GU11/AS02	✓		
GU12/ASB01	✓		
GU12/ASB02	✓		
GU12/LP1		✓	
GU12/LD1			✓
GU13/AS01	✓		
GU13/AS02	✓		
GU13/LP01		✓	
GU13/LD1			✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info


Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen	JKE Job Number: <u>E35091BT</u> Date Results Required: <u>STANDARD</u> Page: <u>1 of 4</u>	FROM:  JK Environments REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: Katrina Taylor ktaylor@jkenvironments.com.au
---	---	---

Location:	Gunnedah				Sample Preserved in Esky on Ice										
Sampler:	HL/EW				Tests Required										
Date Sampled	Lab Ref:	Sample Number	Sample Container	Sample Description	Asbestos	Lead (mg/kg)	Lead (ug/swab)								
	1	GU01/ASB01	P	Material	X										
	2	GU01/ASB02	P	Material	X										
	3	GU01/LP1	P	Paint		X									
	4	GU01/LP2	P	Paint		X									
	5	GU01/LD1	P	Dust (Swab)			X								
	6	GU03/AS01	P	Material	X										
	7	GU03/AS02	P	Material	X										
	8	GU03/AS03	P	Material	X										
	9	GU03/AS04	P	Material	X										
	10	GU03/AS05	P	Material	X										
	11	GU03/AS06	P	Material	X										
	12	GU03/AS07	P	Material	X										
	13	GU03/LD1	P	Dust (Swab)			X								
	14	GU04/ASB01	P	Material	X										
	15	GU04/ASB02	P	Material	X										
	16	GU04/ASB03	P	Material	X										
	17	GU04/ASB04	P	Material	X										
	18	GU04/ASB05	P	Material	X										
	19	GU04/ASB06	P	Material	X										
	20	GU04/ASB07	P	Material	X										
	21	GU04/ASB08	P	Material	X										
	22	GU04/ASB09	P	Material	X										
	23	GU04/ASB10	P	Material	X										
	24	GU05/AS01	P	Material	X										
	25	GU05/AS02	P	Material	X										

Remarks (comments/detection limits required):		G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By: NM	Date: 25/7/12	Time: 1:50pm	Received By: Pray
		Date: 25/7/12	

Envirolab Services
 12 Ashley St
 Chatswood NSW 2067
 Ph: (02) 9910 6200
 2012 99
 25/7/2012
 Time Received: 1:50
 Received By: R
 Temp: Cool/Ambient
 Cooling: Ice packs
 Security: Intact/Unbroken


SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen	JKE Job Number: E35091BT Date Results Required: STANDARD Page: 2 of 4	FROM: JK Environments REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: Katrina Taylor ktaylor@jkenvironments.com.au
---	--	---

Location:	Gunnedah				Sample Preserved in Esky on Ice										
Sampler:	HL/EW				Tests Required										
Date Sampled	Lab Ref:	Sample Number	Sample Container	Sample Description	Asbestos	Lead (mg/kg)	Lead (µg/swab)								
	26	GU05/AS03	P	Material	X										
	27	GU05/AS04	P	Material	X										
	28	GU05/AS05	P	Material	X										
	29	GU05/AS06	P	Material	X										
	30	GU05/LP1	P	Paint		X									
	31	GU05/LP2	P	Paint		X									
	32	GU05/LP3	P	Paint		X									
	33	GU05/LD1	P	Dust (Swab)			X								
	34	GU06/AS01	P	Material	X										
	35	GU06/AS02	P	Material	X										
	36	GU06/LP01	P	Paint		X									
	37	GU06/LP02	P	Paint		X									
	38	GU06/LD1	P	Dust (Swab)			X								
	39	GU07/ASB01	P	Material	X										
	40	GU07/ASB02	P	Material	X										
	41	GU07/ASB03	P	Material	X										
	42	GU07/ASB04	P	Material	X										
	42	GU07/ASB05	P	Material	X										
	44	GU07/LP1	P	Paint		X									
	45	GU07/LP2	P	Paint		X									
	46	GU07/LP3	P	Paint		X									
	47	GU07/LD1	P	Dust (Swab)			X								
	48	GU08/ASB01	P	Material	X										
	49	GU08/ASB02	P	Material	X										
	50	GU08/ASB03	P	Material	X										
Remarks (comments/detection limits required): PLEASE REPORT LEAD IN PAINT AS mg/kg					Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag										
Relinquished By: NM					Date: 25/7/22		Time: 1:50pm HSD		Received By: Ray			Date: 25/7/22			

301299

SAMPLE AND CHAIN OF CUSTODY FORM

TO: ENVIROLAB SERVICES PTY LTD 12 ASHLEY STREET CHATSWOOD NSW 2067 P: (02) 99106200 F: (02) 99106201 Attention: Aileen	JKE Job Number: E350918T Date Results STANDARD Required: Page: 3 of 4	FROM:  JK Environments REAR OF 115 WICKS ROAD MACQUARIE PARK, NSW 2113 P: 02-9888 5000 F: 02-9888 5001 Attention: Katrina Taylor ktaylor@jkenvironments.com.au
---	---	---

Location:		Gunnedah			Sample Preserved in Esky on Ice									
Sampler:		HL/EW			Tests Required									
Date Sampled	Lab Ref:	Sample Number	Sample Container	Sample Description	Asbestos	Lead (mg/kg)	Lead (µg/swab)							
	51	GU08/ASB04	P	Material	X									
	52	GU08/ASB05	P	Material	X									
	53	GU08/ASB06	P	Material	X									
	54	GU08/ASB07	P	Material	X									
	55	GU08/ASB09	P	Material	X									
	56	GU08/LP01	P	Paint		X								
	57	GU08/LD01	P	Dust (Swab)			X							
	58	GU09/AS01	P	Material	X									
	59	GU09/AS02	P	Material	X									
	60	GU09/AS03	P	Material	X									
	61	GU09/AS04	P	Material	X									
	62	GU09/LP01	P	Paint		X								
	63	GU09/LP02	P	Paint		X								
	64	GU09/LD1	P	Dust (Swab)			X							
	65	GU10/AS01	P	Material	X									
	66	GU10/AS02	P	Material	X									
	67	GU10/AS03	P	Material	X									
	68	GU10/AS04	P	Material	X									
	69	GU10/LP01	P	Paint		X								
	70	GU10/LD1	P	Dust (Swab)			X							
	71	GU11/AS01	P	Material	X									
	72	GU11/AS02	P	Material	X									
	73	GU12/ASB01	P	Material	X									
	74	GU12/ASB02	P	Material	X									
	75	GU12/LP1	P	Paint		X								

Remarks (comments/detection limits required): PLEASE REPORT LEAD IN PAINT AS mg/kg		Sample Containers: G - 250mg Glass Jar A - Ziplock Asbestos Bag P - Plastic Bag	
Relinquished By: NM	Date: 25/7/22	Time: 1:50pm	Received By: Ag
		Date: 25/7/22	

301299

SAMPLE AND CHAIN OF CUSTODY FORM

[illegible]

304290