Structural Design Group Engineers Pty Ltd
Phone: 02 8605 9161 Email: info@sdgeng.com.au

Job No: 24040
27 May 2024
Marin Zuro
Metropolitan Demolitions Group P/L
Level 1, 396 Princes Hwy
ST PETERS NSW 2044

Dear Sir

RE : DEMOLITION WORK PLAN MD - 2753
AT : JOHN HUNTER HEALTH & INNOVATION PRECINCT

We have reviewed the attached Demolition Work Plan (DWP) JHHIP – Stage 1 Project No MD 2753 prepared by Metropolitan Demolitions Group Pty Ltd.

We find that the named document above satisfies our requirements and we confirm that the DWP appropriately addresses the requirements of the following:

- AS2601 – Demolition of Structures Code
- SafeWork NSW Code of Practice Demolition Work

We, therefore, endorse and approve the use of the document as a guide for the demolition activity specifically for the specific demolition work discussed in the document reviewed.

I am an appropriately qualified and competent person in this area and as such can endorse the document that it complies with the above referenced engineering standards and codes of practices.

Full Name of Designer	Ramon Gonzales
Qualifications	BE(Hons) MIEAust CPEng NER RPEng RPEQ
Company	Structural Design Group Engineers Pty Ltd
Address of Company	Suite 424, 14-16 Lexington Drive, Bella Vista, NSW 2153 PO Box 7557 Penrith South, NSW 2750 Phone: 0493 454 565

This certification does not relieve the contractor of the responsibility of ensuring that the following are achieved, provided and/or practiced on site:

1. Safety of everyone that will use, rely on the above-mentioned document.
2. All equipment to be used are of good repair and mechanically sound and safe to use.
3. All construction practices, items, etc. meet the requirements of Australian Standards and Code of Practices.
4. The document is up to date and complies with the current Australian Standards and Code of Practices.
5. Comply with the requirements of the Work Health and Safety Act and Regulations.

If you require further clarification, please do not hesitate to contact the undersigned.

Yours faithfully

SDG Engineers Pty Ltd

Ramon Gonzales
BE Struc (Hons) MIEAust CPEng NER RPEQ RPEng
Director – Senior Structural Design Engineer

Attachment: Stamped and dated Demolition Work Plan (DWP) JHHIP – Stage 1 Project No MD 2753

Directors: **Ramon Gonzales** BE Struc (Hons) MIEAust CPEng NER RPEng RPEQ
Suite 424 14-16 Lexington Drive, BELLA VISTA NSW 2153 Telephone: 0493 454 565 or 0422 987 234
Structural Design Group Engineers Pty Ltd – ABN 26 657 216 905 Email: info@sdgeng.com.au Website: www.sdgeng.com.au

Metropolitan
DEMOLITIONS GROUP

Demolition Work Plan (DWP)

[redacted]

JHHIP – Stage 1

[redacted]

Project No: MD 2753

[redacted]

For

[redacted]

Multiplex

Details	Title	Name	Signature	Date
Prepared By:	Project Mgr.	**Marin Zuro**		02/05/24
Reviewed By:	Site Supervisor	**Scott Latham**	S.L.	15/05/24
Approved By:	Project Mgr.	**Marin Zuro**		02/05/24

Mr Ramon Gonzales
MIEAust CPEng NER
National Engineering Register
Signature
Date 27/05/24
Registered on the NER in the area(s) of practice of Structural

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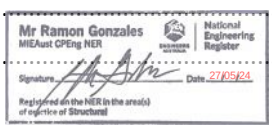

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DWP - Revision Control

This DWP issue number	Date Issued	Amended Page(s)	Action / Amendment Description	Approved By
00		NA	Draft	Project Manager
01	02/05/24	NA	Created	Project Manager
02	15/05/24	Multiple	MPX comments	Project Manager

DWP - Review

Date Reviewed	Reviewed By	Was Revision Required (Record Section Numbers where changes occurred)
2/5/24	Marin Zuro	N/A

DWP Controlled Document Distribution

Issued To	Name & Organisation	Date	Issued by
Site Supervisor	MDG	02/05/24	Project Manager

Mr Ramon Gonzales
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Signature
Date 27/05/24
Registered on the NER in the area(s) of practice of Structural

1. Introduction

1.1 General

This Demolition Work Plan (DWP) has been developed by Metropolitan Demolitions Pty Ltd and sets out the method of demolition to be adopted for the John Hunter Health & Innovation Precinct (JHHIP) project during the course of contractual works and meet Client/Contractual/legal and other requirements. Metropolitan Demolitions Pty Ltd forms part of a group of companies known as Metropolitan Demolitions Group (MDG). For simplicity any reference to Metropolitan Demolitions Pty Ltd will be referred to as MDG in this document.

1.2 Document Design

This Project DWP has been developed to meet the requirements of:

- *Work Health and Safety Regulation 2017 (NSW) Part 4.6, 6.3 and 8.6*
- *Code of Practice: Demolition Work August 2019 (SafeWork, NSW)*
- *AS 2601:2001 Demolition of structures*
- MDGs Integrated QSE Management System requirements

1.3 Supporting Documents

This DWP is to be read in conjunction with the Safety Management Plan (SMP) and Environmental Management Plan (EMP) and / or other plans developed for the project. These developed plans are considered to be the overarching documents to manage and control foreseeable work health and safety risks, environmental risks and meet legislative requirements for the project. Other supporting documents that may be used during the project include:

- Quality Management Plan (QMP)
- Traffic Management Plan (TMP)
- Asbestos Management Plan (AMP)
- Asbestos Removal Control Plan (ARCP)

1.3.1 Safe Work Method Statements

The following key SWMS will be developed prior to staged works;

1. Hand Strip Out and Enabling Works
2. Operation of Excavator
3. Operation of Forklift & Telehandler
4. Operation of EWP
5. Installing Propping - Acrow
6. Demolish Members Using Oxy LPG Equipment
7. Structural Demolition

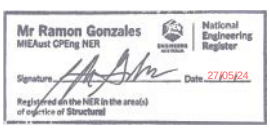
1.4 Client Requirements

This DWP takes into consideration the Client's requirements for implementation through such documents/processes as:

- No Client Specifications detailed for this project.

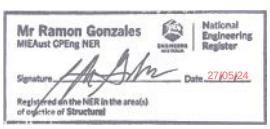
1.5 Licensing Requirements

The type of work involved in this project is classified as restricted demolition work by SafeWork NSW. As such the company undertaking this demolition (Metropolitan Demolitions) are required to carry an Restricted Demolition Licence and the Supervisor in charge of the works must carry an Restricted Demolitions Certificate.



2. Project Information

Client Details:	Is the client the Principal Contractor	x Yes ☐ No	
Company Name:	Multiplex Pty Ltd		
ABN:	66 1476 314 72		
Address:	Level 22, 135 King Street Sydney NSW 2000 Australia		
Phone:	02 9322 2400		
Fax:			
Email:	Sean.Ryan@multiplex.global		
Client Contact Name:	Sean Ryan		
Client Contact Phone Number:	0421 155 759		
Demolition Contractor Details:	Is the contractor the Principal Contractor	☐ Yes x No	
Company Name:	Metropolitan Demolitions Pty Ltd		
ABN:	67 099 769 052		
Address:	Level 1, 396 Princes Highway, St Peters, NSW 2044		
Postal Address:	Po Box 154, St Peters, NSW 2044		
Phone:	02 9519 3099		
Fax:	02 9516 2746		
Email:	info@metrodemo.com.au		
Project Specifics:			
Project Name:	John Hunter Health & Innovation Precinct (JHHIP)		
Project Address (Location):	Lookout Rd, New Lambton Heights NSW 2305		
Start Date:	07/05/24	Completion Date:	01/12/24
Peak number of people on site:	6		
Project Contacts:			
Project Manager:			
Name:	Marin Zuro		
Phone Number:	Mobile: 0435 812 867	Office: 02 9519 3099	
Email:	Marin@metrodemo.com.au		
Competent Person On Site:			
Supervisor 1 – Name:	Scott Latham		
Phone Number:	0474157467		
Supervisor 2 – Name:			
Phone Number			
Site Engineer/WHS Person:			
Name:	Marin Zuro		
Phone Number:	Mobile: 0435 812 867		
Other			



2.1 Project Scope of Works

The scope of works consists of the demolition and removal of building located at: John Hunter Health & Innovation Precinct (JHHIP) – Lookout Rd, New Lambton Heights NSW 2305

The Projects scope of works includes:

- Internal demolition and removal of buildings elements and infrastructure including:
  - Removal of existing ceilings and associated items
  - Removal of existing façade and windows and associated items
  - Demolition of existing walls
  - Removal of existing wall finishes
  - Demolition of door frames and door leaves
  - Removal and relocation of existing FF&E, loose furniture and joinery items
  - Removal of floor finishes
- Designing and installation of Temporary Works
- Protection of structures
- Prepare Management Plans
- Waste sorting and removal
- Transport of waste A
- Demolition and removal of existing stairway at Southern Entry
- Removal of Southern Entry canopy and associated items

- **1.0 Stage 1 -**
- Level 01: G1 Link Corridor
- Level 02:Link Bridge Corridor & Admissions
- Level 02: Retail & Corridor Zones
- Level 03: H3 Link and Corridor
- Level 03: Corridor Zones (infill balustrade removal)
- Southern Entry Façade, Canopy and ED Garden

Key stages of the project will be carried out as described later on in this document and in a detailed sequence as per the Demolition Programme prepared for the project. Work will generally follow the sequence as indicated below.

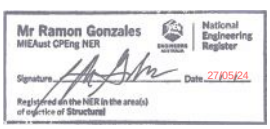
1. Receive Handover of Site and sign off services
2. Site induction
3. Demarcate site and define Exclusion Zones
4. Install Environmental Controls
5. Removal of Hazardous Materials
6. Soft strip structure
7. Erect scaffold and protection
8. Mechanical Demolition
9. Remove rubble and rubbish from site
10. Handover
11. Demobilisation.

All works will be completed in accordance with *Code of Practice: Demolition Work (SafeWork, NSW) and AS2601: The demolition of structures* and shall meet legislative requirements contained in the *Work Health and Safety Act 2011 (NSW)* and *Work Health and Safety Regulation 2017 (NSW)*.

2.2 Project Working Hours

Working hours for **normal works** are:

- **7.00am** to **6.00pm** Monday to Friday
- **8.00am** to **1.00pm** Saturdays
- No work on Sundays and Public holidays



2.3 Project Site Aerial Photograph

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Date 27/05/24
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3. Investigation

An investigation of the structures to be demolished and surrounding environment has been undertaken in accordance with the *Code of Practice: Demolition Work (SafeWork, NSW) and AS2601: The demolition of structures*. The observations from this investigation is broken up into three (3) sections 'Investigation of Structures', 'Investigation of Site', and 'Investigation of Services' and is recorded below.

3.1 Investigation of Structures

3.1.1 Description of Structures

The structures to be demolished are inside an existing live hospital and the awning canopy is located at the Southern Entry

3.1.2 Structural System

The structures are comprised of reinforced concrete slabs with a combination of cavity brick, single skin and plasterboard wall construction.

3.1.3 Hazardous Materials

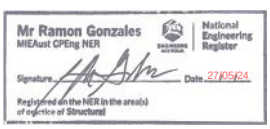
Hazardous materials have been identified in a previous report provided by Client Property Risk Australia Pty Ltd PRJ000914 V1 18 July 2022, however, were non-destructive in nature and should NOT be viewed as complete – Refer **Appendix A**.

No strip out, demolition or other work that has the possibility of disturbing any asbestos containing materials is to commence until a sign off in the affected area is received prior to commencing.

In the case of encountering unidentified asbestos, work will stop in that area and ATS will seal the area and make safe. PRA will be notified, and their advice sought, sampling and identification of the suspect material may be undertaken. ATS will otherwise remove the asbestos in accordance with the ATS Asbestos Removal Control Plan which will be amended if necessary to cover the unexpected find. This unexpected find will then be included in the clearance certificate document issued by PRA and provide a clearance certificate for the same.

The hazardous materials removal will be undertaken by ATS. The licensed asbestos removal contractor will take possession of various areas throughout site setting up containment walls, sheeting, negative air equipment, decontamination units and other controls (where required). Areas will be demarcated, for persons requiring access contact the MDG Site Supervisor who will liaise with the Asbestos Removal Site Supervisor to organise appropriate measures. Do not under any circumstances enter an asbestos exclusion zone, tamper with warning signage or tamper with their equipment. Air monitoring will be undertaken daily throughout the structure, in site sheds and to the perimeter of the site. The results of monitoring will be posted daily in site sheds. The location of temporary and localised asbestos removal zones will be tool boxed talked daily.

A clearance certificate will be obtained by a qualified Occupational Hygienist prior to demolition.



3.1.4 Height of Structures and Distance to Boundaries

The height of the internal structures vary between 2-5m in height and are built-up hard up against all boundaries.

The Southern awning canopy is approx. 4m.

3.2 Investigation of Site

3.2.1 Description of Site

The site is of irregular shape consisting of 1 big building with various departments which require demolition – refer to section 2.3.

All neighbouring departments and corridors are to remain operational throughout the demolition process. MDG works must not in any way hinder the operation of the existing JHH operations outside of the approved work areas.

3.2.2 Underground Structures

No details of underground structures have been provided by the Client.

3.2.3 Retaining Structures

There are also several retaining walls external to the building(s) which have been identified.

3.2.4 Hazardous Chemicals / Dangerous Goods Storage or Dumps

No major hazardous chemicals or dangerous goods (e.g. munitions, chemical storage systems, underground storage tanks, compressed gas cylinders, fire retardant cylinders, medical gases, dumps of noxious or toxic or hazardous substances, etc.) have been identified on site or have been communicated by the Client.

Work involving removal of hazardous chemicals / dangerous goods is not in MDGs scope of works and is the responsibility of the Principal Contractor to remove unexpected findings of hazardous chemicals / dangerous goods on site.

In the event of encountering any unexpected findings of hazardous chemicals / dangerous goods, the following is to apply before work commences in the immediate area:

1. Work in the immediate area will stop
2. The Site Supervisor will be notified of the find
3. The Site Supervisor will notify the Project Manager
4. The Project Manager will notified the Principal Contractor
5. The Principal Contractor will organise the safe removal of the substance (which may necessitate the engagement of specialist contractors), work will not recommence in the area until the Principal Contractor has given approval

3.2.5 General Condition of Land and Structures on Adjoining Sites

The buildings, paths, roadways and other items surrounding the site are in sound structural condition. A full Dilapidation Survey is to be undertaken to demolition starting. MDG do not anticipate any physical impacts on the surrounding structures.

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Care will be taken to minimise impacts on adjoining sites and structures. Various methods will be employed to minimise the disruption to the surrounding buildings or adjoin sites and structures.

3.3 Investigation of Services

3.3.1 Services to be disconnected

All services shall be disconnected / made safe prior to commencement of demolition work. A sign-off on services will be received by MPX prior to the commencement of any demolition works.

For early works prior to full disconnection of power, areas will be isolated and a sign off on the power in those areas received. For some minor demolition in localised areas where it is clearly evident that there is no power services going to be disturbed (e.g. removal or demolition of ceiling grids, furniture and fixings that do not contain power) the demolition may occur without a signoff, MPX permit is required.

For complex structures that involve many operational 'live' Client critical services (pressurised piping systems, other water/chemical/steam/air systems, electrical, communication, gas, etc.) requiring identification, relocation and decommissioning or isolation by the Client (and where MDG is the Principal Contractor). The following form may be used to assist MDG in obtaining required signoffs ***Request to Client for Service Id, Decommission & Approval to Remove*** form.

Where fire sprinkler systems are unable to be isolated due to Client operational needs, care shall be taken during works to prevent disruption to this service.

Refer Service Disconnection Signoffs - **Appendix B**.

3.3.2 Services to be maintained

Water and temporary power will be used during the course of demolition works. Some emergency access lighting will be installed and temporary power boards will be used to provide task lighting in the darker areas of the structures. Power will also be used by the Asbestos Removal Contractor to run vacuums, decontamination units (where required), negative air units and lighting within their enclosures.

Water will be used for dust suppression and in the decontamination unit showers (where required).

3.4 Hazard Investigation / Identification

The following key hazards associated with demolition work have been identified:

- Unplanned structural collapse
- Falls from one level to another.
- Falling objects
- The location above and underground essential services, including the supply of gas, water, sewerage, telecommunications, electricity, chemicals, fuel and refrigerant in pipes or lines
- Exposure to hazardous chemicals – these may be present in demolished material or in the ground where demolition work is to be carried out (contaminated sites)
- Hazardous noise from plant
- The proximity of the building or structure being demolished to other buildings or structures

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Signature | Date 27/05/24
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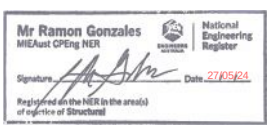
Each of the above risks has been investigated and control measures outlined in the Safe Work Method Statement (SWMS) developed for demolition and associated works. Refer SMP and EMP for more details.

3.5 Suspended Slabs and No-Go Areas for Machine's

The following areas are no-go areas for machinery unless an engineer's approval is sought first:

1. All suspended slabs
2. The high side of any retaining walls from the edge of the wall, back a distance equal to the height of the wall
3. On top of any underground structures including fuel tanks and the like. Note: where the walls of underground structures are retaining walls, they should be treated in accordance with the above point
4. No EWP's are permitted to enter or work within the existing John Hunter Hospital elevators.

- All levels of the structures to be demolished with the exception of the basement slabs are suspended. No machines are to be placed on these slabs without first getting engineers approval. Certification will be sought as to the heaviest Skidsteer, truck and excavator types that can be places on area of the building prior to bringing any machines on site. Prior to heavier machines being brought onto site, temporary propping will be designed by a structural engineer, installed and finally certified by the design engineer for the areas the machine will be working in. A third party engineer will also check all temporary works including back propping and bracing.
- Prior to installation of back propping a SWMS will be developed for the installation of the props. See Metropolitan Demolitions SWMS – *Installation of Back Propping.*



4. Demolition Exclusion Zone

The demolition Exclusion Zone will encompass the certain areas of the site by MDG and exclusion zones will be established in the wider construction area with the exception of the site amenity areas (and access ways to and from), which will be deemed construction zones.

All personnel on the Principals contractor site have to be inducted into their system. In addition, all personnel not inducted by MDG will be required to visit the site office and not enter the demolition site until they have been inducted and signed on the Site Sign-In Register or brought on site with the permission of the MDG Site Supervisor under the supervision of an inducted person and have signed in the Site Visitors Register.

As well as the whole demolition site being a demolition zone, various area inside site will be demarcated with chain wire fencing and signs 'Warning Drop Zone, Do Not Enter', Jersey curbs, steel plates and other engineering barricades will also be used in the Drop Zones. The locations of these Drop Zones are also marked up on an Exclusion Zone Plan. The location of smaller temporary localised Drop Zones will be tool box talked daily and detailed in the demolition site sign on location.

All Exclusion Zones, Asbestos Removal Zones and Drop Zones will be properly demarcated.

No unauthorised persons shall be permitted into the demolition work area. All personnel and visitors will follow Site Personnel and Visitor Registration Procedure.

5. Details of Demolition

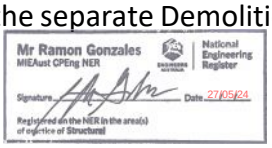
5.1 Sequence

Demolition

Work will follow the sequence below. Amended to this sequence may occur to suit. For more detail see separate Demolition Program.

1. Receive Handover of Site and sign off services
2. Site induction
3. Demarcate site and define Exclusion Zones
4. Install Environmental Controls
5. Removal of Hazardous Materials
6. Create Materials Handling Path/Loadout Area
7. Soft strip structure
8. Erect scaffold and protection
9. Mechanical Demolition
10. Remove rubble and rubbish from site
11. Handover
12. Demobilisation

More details on the sequence and flow of the work including durations see the separate Demolition Program and updated monthly programs.



Temporary Works

Note: Where temporary works are necessary (propping, scaffolding needles and the like) the following sequence MUST be adhered to prior to the use of the temporary works item:

1. Design
2. Specialist Engineer Sign Off on Design
3. Second engineer to check design, and MPX to review
4. Installation
5. Inspection and Certification (engaged specialist Engineer)
6. Use of temporary works structure/item

5.2 Detailed Work Method

5.2.1 Receive Handover of Site and Sign-off on Services

Demolition will begin only when the site has been officially handed over and a sign off on services has been received by the appropriate service providers for appropriate areas.

5.2.2 Site Induction

A site induction is to be held before any work commences on site. The site induction includes the following:

- Induction into this DWP, other plans and SWMS
- Induction into the Principal Contractors Work Health and Safety Management Plan/system
- Induction into the Clients Work Health and Safety Management Plan/system (where required)

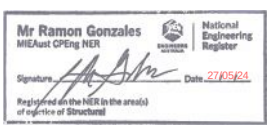
5.2.3 Demarcate Site and Define Exclusion Zones

Each work zone will be demarcated with 3m high 'A-Class'' hoardings erected by the Principal Contractor. Other areas of site may be demarcated as hazard removal areas, exclusion or Drop Zones. The access gate will be closed during demolition works and manned during load out.

Site notices to be displayed in a prominent position are:

- Unauthorised entry prohibited
- Warning Demolition in Progress
- Warning Asbestos Removal
- Mandatory PPE information signage
- MDG Site Supervisor in charge of works
- 24 hour site emergency contact number

Dedicated demolition exclusion zones will be established in wider work area by MDG, exclusion zones are to be established with fortress fencing and signage, red & white taped exclusion zones are not permitted.



5.2.4 Install Environmental Controls

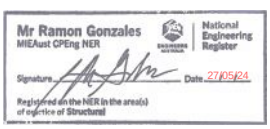
MDG is a responsible demolition contractor and will endeavour to ensure the unimpeded operation of the surrounding sites throughout our works. Particular importance will be placed on sensitive receivers and close proximity to adjacent buildings. MDG will endeavour to do everything reasonably practicable to make what is by nature a noisy and disruptive process as quiet and dust free as possible. A summary of the key environmental methods that will be used on site include:

- **Sediment Control**
  - Leaving all hardstands in place until the very end of the project. All truck movements will be on hardstand
  - Installing sediment settling and filtration system in the sumps of building to collect and filter sediment prior to it being released into the storm water system. Prior to releasing any water into the storm water a testing system will be put in place
  - A mechanical vacuum type street sweeper is to be employed wherever sediment or dust becomes an issue on the external roadways and on the internal hardstand on site. It is expected that initially there will be not much need for the sweeper however towards the peak load out period of the project the sweeper may need to return to site daily. The need for the sweeper will be assessed on a daily basis with input from interested parties and stakeholders.
  - All drains will be covered in a Geotech material, with Geotech lined hay bales placed up stream of the flow to these drains. All fencing to the perimeter of site will be lined with shade cloth
- **Noise Management**

Demolition is a noisy process, however many measures can be taken to minimise this noise. MDG believe that with the following noise reduction measures when implemented will minimise noise disruption to the surrounding buildings:

  - Demolition will be undertaken by as large as possible machines as they are far less obtrusive than the rapid crescendo of smaller machines.
  - External walls of each floor will be left in place until the very last stage of each floors demolition. The walls act as a sound barrier shielding the neighbourhood buildings from much of the noise generated by machines on that floor.
  - Material that generates a lot of noise when removed via Drop Zone (large steel members, etc.) will be craned off the structure
  - A 3m high 'A Class' hoarding that will be erected to the perimeter of the demolition site will greatly reduce ground level noise from escaping the confines of site.
- **Dust Control**

  Demolition of brick and concrete can generate excessive amounts of dust however through the following dust suppression measures MDG anticipate the dust leaving the confines of the work area being demolished will be kept below a level that adversely affects the surrounding billings and site:



- Each machine used in the demolition process will be accompanied by a labourer with a water hose to ensure water is available on each separate demolition face and provide adequate dust suppression whilst outside. Water runoff will be minimised.
- Hand-held misters only will be used when undertaking works withing the existing building.
- All scaffolding will be lined with Metro Mesh which reduces the wind over the active demolition faces and the possibility of dust permeating through the scaffolding screen
- Material will be saturated prior to being removed via the Drop Zone whilst outside.
- During load out of material, material will be wet down to minimise dust being generated.
- The 3m high 'A Class' hoarding will be erected reducing ground level dust from escaping the confines of the site

- **Vibration Management**

  Vibration on this site will emanate from the excavator mounted hydraulic hammers used in the process of breaking down the concrete and brick structure into rubble and also from items reaching the base of the Drop Zone. The following measures will ensure that disruptive vibration will not travel beyond or site:

  - Physical links from structure being demolished to adjoining buildings and structures will be demolished (e.g. overhead walkway etc.)
  - Physical separation will be done by saw cutting a slice of the slab
  - Breakup of slabs, beams and columns into smaller pieces of rubble to reduce vibrations being felt from Drop Zone operation
  - Structural steel and large heavy objects will be craned off site
  - Covering of the base of Drop Zone with 500mm of rubble prior to use.

- **Truck Movements**
  - Providing traffic controllers to control pedestrian and vehicular traffic
  - Ensure trucks are covered prior to leaving site
  - Providing drivers information on access, routes and site conditions and sensitive receivers
  - Space allocated for trucks within hoardings
  - There is to be no truck movements through the main entry of the hospital, all truck movements are to enter through Jacaranda Drive.

Refer ***Environmental Management Plan*** (EMP) for full details.

5.2.5 Removal of Hazardous Materials

The management of asbestos on site will be conducted in accordance with the Safety Management Plan (SMP) and Asbestos Management Plan (AMP) developed for the project.

Where hazardous materials removal is to be undertaken an Asbestos Removal Control Plan is to be developed by the ATS including specific SWMS for the activity. The Asbestos Removal Control Plan is to incorporate the requirements of the Asbestos Management Plan (AMP).

Mr Ramon Gonzales
MIEAust CPEng NER
National Engineering Register
Signature
Date 27/05/24
Registered on the NER in the area(s) of practice of Structural

Hazardous materials removal work will be conducted in accordance with the *Work Health and Safety Regulations 2017 (NSW)* and the *Code of Practice: How to safely remove asbestos.*

The hazardous materials removal will be undertaken by ATS in all areas of site prior to demolition in those particular areas. A clearance certificate will be obtained by a qualified Occupational Hygienist prior to demolition.

Refer ***Asbestos Management Plan*** and (ARC) Asbestos Removal Control Plan and SWMSs for further details on the asbestos removal and associated risks analysis.

Mr Ramon Gonzales
MIEAust CPEng NER
National Engineering Register
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Date 27/05/24
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5.2.6 Create Materials Handling Path/Loadout Area

Materials will be sorted into individual waste items for both recycling and general waste. Materials removed from each floor will be placed into 660L bins and transferred through the hospital to the larger bins located at the loading dock. Bins will be wiped down and sticky mats will be installed at entry/exit points, prior to leaving area and to prevent dust being tracked through hospital. A mop and bucket will be available on standby.

Bins will be loaded into larger bin using a forklift with rotator. Materials will follow the materials handling path as per Multiplex Materials Handling path documents. Bins will be transported down to Level 1 via lift and transported through corridor to the loading dock. An overflow area will be set up at Gate 1 if required for excess materials. Excess materials will be transported using a small tipper and materials loaded into bin(s) using a mini-excavator.

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National Engineering Register
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5.2.7 Soft Strip Structures

The structures will be stripped-out by hand and appropriate hand tools where required, prior to mechanical stripping in appropriate areas. No heavy machines will be placed in the areas highlighted in Section 4(1).

Bounded material such as non-loading bearing walls, partitions, and doors that may not be removed by machines will be removed by a combination of hand, picks, crow bars, and other associated tools, and stockpiled in the building or a secure area of site for load out by machines.

5.2.8 Erect Scaffold and Protection

A combination of heavy duty 5 board demolition scaffolding covered with chain and shade and mobile scaffolding will be used throughout the project. 3m high 'A Class' hoardings will be erected to the perimeter by the Principal Contractor.

See SWMS provided by scaffolders for further details on the scaffolding erection and associated risk analysis.

5.2.9 Mechanical Demolition

Mechanical demolition will be by hydraulic excavator. 2 and 5 tonne hydraulic excavators with hammer and bucket attachments. These machines may be on suspended slabs or from ground level. An engineer's approval will be sought regarding the size of machine that can be put on any particular slab. The engineer's directions in regard to loads on each slab, back propping to the slabs and sequence of demolition will be followed and are included in this document as **Appendix C**.

Hydraulic excavators with hammer / pulveriser attachments will break up brick walls and concrete slabs of the structures in sections and remove.

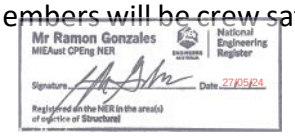
A watcher will work with plant and equipment operators at all times.

Water will be maintained at the face of demolition for dust suppression where required.

During demolition the floor area around the excavators and the bay area's being demolished will be closed off with warnings signs, ATF fence panels and existing wall's. No plant or personnel will be allowed in these areas.

Southern Entry awning canopy works

- Lift study is currently being undertaken to confirm city crane or maeda crane.
- Road/footpath closure permit will be obtained and in place.
- Access to existing carpark and lift will be diverted to other areas
- Sign-off on services will be received
- Initially, using small hand/power tools holes will be cut into the roof sheeting via platform ladders, mobile scaffold or EWP
- MDG temporary works engineer will verify plant loadings on suspended floors prior to commencement.
- Crane will mobilise to site
- Crane company will provide appointed person letter and all team members will be crew safe trained



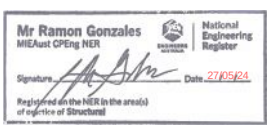
- Dogman will rig the section via chains for lifting
- Once rigged workers to disconnected members using power tools.
- Crane operator to lift and lower onto ground floor slab for processing and load out
- Balustrades will be removed working behind temporary fencing or EWP

Western stair demolition and bridge hobs

- The stairs will be removed by 5T excavator working from the slab on ground level whilst the hobs will be demolished by 2T excavator working on the suspended slab.
- MDG temporary works engineer will verify plant loadings on suspended floors prior to commencement.
- Demolition works using the hydraulic hammer attachment to break all the concrete structures in that area
- Hand-held hoses will be used to control dust at the source point and water managed to prevent run off
- Materials will be stockpiled and wet down prior to loading into trucks for removal.
- Ensure correct PPE is worn, gloves, glasses, hearing protection and P2 mask
- Work and deliver during only approved construction hours (DA)
- Assess likely noise levels prior to site work and respond to complaints accordingly
- The loading of trucks shall take place on hardstand areas on site, where possible
- Plant and equipment checks will be conducted daily
- Installation of appropriate environmental controls such as Geotech fabric and Geotech Socks installed to all on-site pits and inlets etc.

Where manual (hand) demolition is required:

- All materials will be sorted into individual waste streams for both recycling and general waste
- Platform ladders, mobile scaffold or EWP will be used to access areas at height
- Instruction, training and supervision will be provided to workers who undertake manual handling
- The ceilings will be removed by hand and appropriate hand/power tools where required
- Materials will be stockpiled and wet down prior to loading into wheel waste bins for removal.
- Ensure correct PPE is worn, gloves, glasses, hearing protection and P2 mask
- Site inspection will be undertaken to verify all existing wall heights, thicknesses etc.
- If construction of wall is unexpected/non-typical MDG temporary works engineer will review and advise of propping requirements
- Similarly, MDG temporary works engineer will verify maximum permissible rubble loadings on suspended floors prior to commencement.
- The walls will be removed by hand and appropriate hand/power tools where required
- Lightweight materials such as partitions and doors etc. will be removed by a combination of hand tools such as picks, crow bars and other associated tools.



- Masonry walls will be removed via combination of small hand tools such as sledge/lump hammers etc. and power tools such as electric jackhammers and electric demo saws.
- Demolition works will be undertaken in a top-down manner or course-by-course.
- A water hose will be on standby to suppress any dust
- Ensure adequate ventilation to work area or mechanical or extraction fans installed
- Work and deliver during only approved construction hours (DA)
- Assess likely noise levels prior to site work and respond to complaints accordingly
- Schedule meal breaks to coincide with ward designated quiet times (12:30pm-1:15pm).
- Protection to surrounding surfaces will be installed prior to commencement
- Similarly, area to be barricaded below to ensure any glass that drops is caught
- The glass will be removed by appropriate hand tools (hammer and pick) ensuring all sharp edges are removed from the window sash/frame/housing.
- Workers to remove glass sections to nominated area for disposal, ensuring travel path is swept up continuously and kept clean/free of debris
- Maintain visual & radio communications with crew
- Site inspection will be undertaken to verify slab thicknesses etc.
- MDG temporary works engineer will verify plant loadings on suspended floors prior to commencement.
- If construction of slab is unexpected/non-typical MDG temporary works engineer will review and advise of propping requirements
- Materials will be stockpiled and wet down prior to loading into wheel waste bins for removal.
- Floor scraping/grinding equipmemt will be fitted with the HEPA filtered vacuums and dust collector attachments where possible.

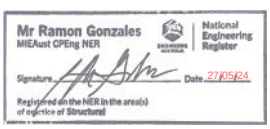
5.2.10 Remove Rubbish and Rubble from Site

Preferred waste removal strategy:

- Wheel waste bins will be brought out to the existing loading dock area where they will be loaded into hook lift bins within designated area of loading dock
- Wheel waste bins are to have lids closed/secured at all times.
- 2.5T forklift with rotator attachment will unload bins of waste material into hook lift bins provided in area.
- This area will be demarcated with fencing and signage.
- Material will be wet down prior to handling to suppress/minimise dust.
- Bins/stockpiles to be covered when not in use with plastic/fabric or the like and the installation of appropriate environmental controls such as Geotech fabric and Geotech Socks installed to all on-site pits and inlets etc.

Overflow bin area/strategy:

- There will be additional hook lift bins located at Gate 1 to account for excess material removal not impacting the hospital



- Wheel waste bins will be brought out to the existing loading dock area where they will be loaded onto an MDG 2T tipper truck via forklift.
- Wheel waste bins are to have lids closed/secured at all times.
- Material will be transported to the Gate 1 area where a 5T zero-swing mini excavator will unload bins and re-load waste material into hook lift bin in provided in area.
- This area will be demarcated with fencing and signage, similar to the loading dock.
- Material will be wet down prior to handling to suppress/minimise dust.
- Bins/stockpiles to be covered when not in use with plastic/fabric or the like and the installation of appropriate environmental controls such as sediment fencing etc.

A hyrdraulic excavator with grapple attachments operating at ground level may remove materials and load bins. The area this machine is working in will be clearly demarcated and posted as a Loadout Zone and is also out of bounds for all personnel unless under the express permission of the operator of the load out machine who will be in constant contact with spotters via 2 way radio.

Demolished material will be separated and stock piled ready for load out.

Demolished material will be disposed into appropriate bins for transportation to an EPA approved tipping or recycling facility.

Water will be maintained on stockpiles at all times for dust suppression.

Care shall be taken to watch for pedestrians when entering and leaving site.

Approved Traffic Control Plan will be adhered to at all times. All trucks will follow the truck route and guidelines on entering and exiting the site.

A ticketed traffic controller will assist trucks for site access and egress when required.

5.2.11 Handover Site to Client Representative

Where areas are to be progressively handed back to the Client or Principal Contractor the ***Project Area Handover Form*** is to be used and a copy provided to the Client.

On practical completion of works, a site meeting with the Clients representative and MDG will occur. MDG will hand over the site following the completion of all activities on the scope of works.

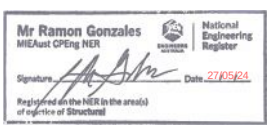
5.2.12 Demobilise from Site

The site demobilisation will take place following the site handover to Clients representative. Truck floats will take plat off site, the mobile amenities (where used) will be towed off site and the site fencing dismantled (where installed by MDG) and carted off site.

6. Permits by Authorities

All relevant permits required by authorities will be sought and displayed on-site at all times. These permits include but are not limited to (refer **Appendix D**):

- SafeWork NSW Permit for demolition
- SafeWork NSW Permit for asbestos removal



7. Personnel Qualifications

All personnel onsite shall hold a General Construction Induction Card (White Card).

The Site Supervisor shall be a SafeWork NSW recognised Demolition Class DE2 (restricted) Competent Person with considerable expertise in the demolition of similar structures.

All plant will be operated by SafeWork NSW ticketed and experienced personnel.

MDG is committed to ensuring ongoing Work Health and Safety compliance. All personnel will be site inducted prior to commencement of work on-site.

8. Notes:

- During mechanical demolition, a competent observer will work with the operator at all times
- A ticketed traffic controller will assist trucks accessing and egressing the site
- The structure is to be demolished in a controlled manner
- MDG will maintain a competent SafeWork NSW recognised person on site at all times
- Each day a daily toolbox talk and checklist will be conducted by a site foreman and is to be read in conjunction with this DWP and the task specific SWMSs
- Personnel will sign off daily toolbox talks prior to proceeding to the work face
- All MDG personnel will hold a General Construction Induction Card (White Card) and will wear appropriate PPE
- Site specific SWMS and DWP can be altered in the Tool Box Talks, by altering the actual documents and by creating new SWMS on the blank forms provided. These changes will be outlines in a toolbox talk and orally if the competent person on site identifies additional risks. Further revisions of the documents will be issued as soon as practicable.

9. Forms

- Request to Client for Service ID, Decommission & Approval to Remove F-QSE-024.A
- Project Area Handover Form F-QSE-003.H
- Multiplex Demolition Permit

Mr Ramon Gonzales
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National Engineering Register
Signature
Date 27/05/24
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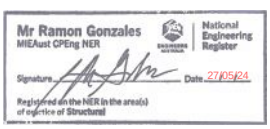
Appendix A – Hazardous Materials Survey / Register



HAZARDOUS MATERIALS SURVEY REPORT

JOHN HUNTER HOSPITAL

MULTIPLEX

PROPERTY RISK AUSTRALIA

PRA INSPECTION BODY ACCREDITATION

Accreditation	NATA Accreditation Number 20447.
Inspection Body	Accredited for compliance with ISO/IEC 17020

PRA CONTACT DETAILS

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STATEMENT OF LIMITATIONS

This report has been prepared by Property Risk Australia Pty Ltd (PRA) for the benefit of Multiplex (hereafter the 'Client') in accordance with the agreement/contract between PRA and the Client. The works carried out in preparing this report have been performed in accordance with the proposal, scope of works, general terms and conditions and special terms and conditions, agreed in consultation with the Client.

This report has been prepared with information available at the time of report preparation and within the time and budgetary constraints imposed by the Client. PRA does not accept responsibility for inaccurate or incomplete information provided by the Client or third parties, nor for updates or changes to information made after the preparation of this report.

This report is solely for the use of the Client and has not been prepared for use by any other person or third party. This report must only be presented in full and may not be used by any person or third party, other than the Client, unless agreed to in writing by PRA. This will allow PRA to ensure that the intended use or interpretation of the report is fit for purpose and agreed to by the Client. PRA accepts no responsibility for damages arising from use of this report or supplementary information.

DOCUMENT QUALITY CONTROL

Report Title:	Hazardous Materials Survey Report
Site Address:	John Hunter Hospital, Lookout Road, New Lambton Heights, NSW 2305
Client Name:	Multiplex
Job Number:	PRJ000914
Revision Number	V1
Revision Date	18 July 2022
Status	Final

Revision Number	Report by	Position	Date
V0a	James Stewart	Managing Consultant	12 July 2022
Revision Number	**Reviewed by**	**Position**	**Date**
V1	Derrick Scott	Managing Consultant	15 July 2022
Authorised by	**Position**	**Signature**	**Date**
James Stewart	Managing Consultant		18 July 2022

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EXECUTIVE SUMMARY

Introduction and Background

This report presents the findings of a targeted Hazardous Materials Survey conducted by Property Risk Australia Pty Ltd (PRA) in line with scope of the proposed refurbishment and demolition works on behalf of Multiplex, within the boundary of the John Hunter Hospital located at Lookout Road, New Lambton Heights, NSW 2305 as part of the John Hunter Health and Innovation Precinct Project.

This report has been prepared to assist Multiplex in fulfilling its obligations under the *Work Health and Safety Regulation NSW 2017* (NSW) to ensure that any asbestos or other hazardous materials that may be disturbed by the works have been identified and included in an up-to-date Asbestos and other Hazardous Materials Register.

Methodology

PRA undertook a documentation review, on-site targeted survey, and sampling in line with the scope of the proposed refurbishment and demolition works, analysis of sample results and the preparation of an asbestos, and other hazardous materials register, and report. The hazardous building materials covered by this report include Asbestos-containing Materials (ACM), Synthetic Mineral Fibre (SMF), Polychlorinated Biphenyls (PCBs), Lead-containing Paint (LCP) and Lead-containing Dust (LCD).

Asbestos and other Hazardous Materials

ACM and other hazardous materials were identified, refer to Asbestos and other Hazardous Materials Register in **Appendix A**. Recommendations are provided within the report.

All ACM and other hazardous materials should be removed prior to demolition or refurbishment in accordance with the site Asbestos Management Plan (AMP) or Hazardous Materials Management Plan (HMMP), the recommendations provided and Codes of Practice. If no AMP/HMMP exists, then one should be developed for the site.

Naturally Occurring Asbestos

The site is not mapped and has very little to no potential of containing Naturally Occurring Asbestos (NOA) (Heads of Asbestos Coordination Authorities, 2015).

1 INTRODUCTION

This report presents the findings of a targeted Hazardous Materials Survey conducted by Property Risk Australia Pty Ltd (PRA) in line with scope of the proposed refurbishment and demolition works on behalf of Multiplex, within the boundary of the John Hunter Hospital located at Lookout Road, New Lambton Heights, NSW 2305.

2 LEGISLATIVE CONTEXT

This report has been prepared to assist Multiplex in fulfilling its legislative obligations to ensure that Asbestos and Hazardous Materials (HM) (hereafter 'materials') have been identified and quantified by a licensed asbestos assessor or competent person and documented within an up-to-date Asbestos and other Hazardous Materials Register. If ACM or HM are identified or assumed to be present in inaccessible areas, then an Asbestos (and other Hazardous Materials) Management Plan must be developed.

The information contained in this report is supplied on the understanding that all identified ACM and HM will be removed prior to, or as part of the planned demolition/refurbishment works. Any asbestos or other hazardous materials remaining in situ at the conclusion of the project will need to be detailed in the site Asbestos and other Hazardous Materials Register and AMP/HMMP and managed in accordance with *Work Health and Safety Regulation NSW 2017*.

This report has been prepared in accordance with the following NSW Legislation, Australian Standards and Codes of Practice:

- *Work Health and Safety Act* 2011;
- *Work Health and Safety Regulation* 2017;
- *Code of Practice: How to manage and control asbestos in the workplace* (SafeWork NSW, dated August 2019);
- *Code of Practice: How to safely remove asbestos* (SafeWork NSW, dated August 2019);
- *Code of Practice: Demolition Work* (SafeWork NSW, dated August 2019);
- *AS 2601 - 2001 ''Australian Standard™ The Demolition of Structures*;
- *National Code of Practice for the Safe Use of Synthetic Mineral Fibres* [NOHSC:2006(1990)]; and
- *AS/NZS 4361.2:2017 Guide to hazardous paint management, Part 2: Lead paint in residential, public and commercial buildings*.

Refer to **Section 7** for Legislation, Codes of Practice, Australian Standards and Industry Guidelines.

3 SITE DESCRIPTION

A summary of the buildings on site during the survey, are provided in **Table 1**.

Table 1: Site Details

Building Name	Year Built (circa)	No. Levels:	Area (approximate sqm)
John Hunter Hospital	1991	5	~20,000 sqm/floor

4 METHODOLOGY

4.1 Documentation Review

PRA were provided the following documentation by the Client for this site:

The Hazardous Materials Survey report by RCA Australia (Report Ref: 14399A-401/2, dated April 2021). Hazardous materials are noted in the report however asbestos materials in the survey areas were previously checked by another company (as engaged by Hunter New England Health separate to the Project) and are documented in the Asbestos Register NELHD_ASB_REG_JOHN_HUNTER_V1.0.xlsx, which PRA have been provided a copy.

The location of the site was also compared to the *Naturally Occurring Asbestos in NSW Map* (NSW Department of Industry 2017), to indicate whether sub-surface geology was likely to contain naturally occurring asbestos.

4.2 Site Survey and Sampling

The site survey was completed in a phased programme between the 16 May 2022 and 17 June 2022 by James Stewart and Liam Naughton in all areas within the planned refurbishment zones as outlined by Multiplex. Surveying and sampling are undertaken in accordance with PRA's NATA accredited QSE-2M and QSE-3M in-house procedures. The following was undertaken during the survey:

- Execute physical works within the existing building in a discrete manor, acknowledging that the existing building is an operational hospital;
- Inspect all accessible areas and inaccessible areas (when safe to do so) to identify asbestos and other hazardous materials;
- Use invasive or destructive techniques where required to take representative samples for suspected asbestos or lead materials;
- Identify any inaccessible areas of the site, and any restricted access areas where suspected materials are likely to be present;
- Identify assumed materials – these are visually similar materials in the same vicinity as a suspected and sampled material, that will be assumed to have the same sample result. This representative sampling method is used to limit sampling disturbance;
- Record the location, extent, condition, friability and type of the ACM (and other hazardous materials); and
- Present the findings in a Register.

As the ACM identified are planned to be removed as part of the works there is no requirement to assess the ongoing risk of exposure to persons from asbestos materials. However, any ACM remaining in situ at the conclusion of the project will need to be documented in the site Asbestos Register, AMP and managed in accordance with *Work Health and Safety Regulation NSW 2017*.

No survey can be guaranteed to locate all asbestos and other hazardous materials without extensive destruction of the building therefore the survey findings cannot be regarded as being absolute. Planned or future demolition to the site structures may expose building voids or other areas which were concealed or otherwise impractical to access during this assessment.

4.2.1 Sample Collection and Analysis

All asbestos bulk sampling is carried out in accordance with the requirements of the NSW *Code of Practice: How to Manage and Control Asbestos in The Workplace* (SafeWork NSW, 2019) and PRA's procedures. Samples are collected by competent consultants, placed in plastic sealed clip-lock bags, labelled (job-site-sample location), and transported under Chain of Custody to PRA's NATA accredited laboratory facility.

The samples were analysed using PRA's in-house test method ASB-2 and in accordance with Australian Standard (AS) 4964-2004 *Method for the qualitative identification of asbestos in bulk samples*.

Lead-paint/dust samples are taken in accordance with PRA procedures, placed in labelled plastic sealed clip-lock bags, and transported under Chain of Custody to an external laboratory. The testing of samples for lead content involved the quantitative analysis of lead using ICP-AES/MS, ICP-OES and or CV/AAS following sample digestion. Sample analysis is carried out by an external laboratory accredited by NATA for the scientific methods employed.

Refer to **Appendix C** for Laboratory Certificates of Analysis.

In order to try and reveal potential concealed hazardous building materials, survey techniques may involve the use of invasive or intrusive techniques in a destructive manner to facilitate sample collection. PRA is not liable for any reinstatement or associated costs to make good. The survey and sampling techniques are employed on the understanding that the area is to be demolished and any hazardous materials identified are to be removed prior to the building being reoccupied.

Lead Containing Paint

The analysis and assessment of lead-containing paint will be undertaken in general accordance with Australian New Zealand Standard (AS/NZS) 4361.2-2017 *Guide to Lead Paint Management, Part 2: Lead paint in residential, public and commercial buildings*.

Lead Containing Dust

Representative sampling of dusts such as dusts within ceiling cavities will be collected. The NSW Lead Advisory Centre has advised that no acceptable levels have been established in Australia for lead in dust. Samples are therefore compared to 'Residential A' health-based investigation level for soil contaminants, of 300mg/kg of lead, per Schedule B1 of the *National Environment Protection (Assessment of Site Contamination) Measure 1999.*

Synthetic Mineral Fibres

Suspected Synthetic Mineral Fibre (SMF) materials are identified by visual assessment in general accordance with The *National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)].*

Polychlorinated Biphenyls

Subject to an electrician (provided by the client) being present, safely accessible representative fluorescent light fittings or other equipment likely to contain PCBs i.e. ceiling fans, lift switch gear will be partially dismantled and specifications of any suspected PCB containing capacitors will be compared to the *ANZECC Identification of PCB-Containing Capacitors – 1997*. Otherwise, the probability that light fittings or other equipment incorporate PCB containing capacitors will be based on the age and appearance of the fittings.

4.3 Report Preparation

The purpose of this report is to communicate the findings of the documentation review, site survey and bulk sample analysis into an Asbestos and other Hazardous Materials Register, refer to **Appendix A**. This assessment has been used to assist the client in prioritising the removal of asbestos and other hazardous materials on-site prior to the proposed project works.

5 RESULTS

5.1 Findings of Documentation Review

5.1.1 Existing Documentation

PRA were provided the following documentation by the Client for this site:

PRA have been provided with a Hazardous Materials Survey report for the above areas completed by RCA Australia (Report Ref: 14399A-401/2, dated April 2021). Hazardous materials are noted in the report however asbestos materials in the survey areas were previously checked by another company (as engaged by Hunter New England Health separate to the Project) and are documented in the Asbestos Register NELHD_ASB_REG_JOHN_HUNTER_V1.0.xlsx, which PRA have been provided a copy. This asbestos register indicates that no ACM were sighted the inspection.

The location of the site was also compared to the *Naturally Occurring Asbestos in NSW Map* (NSW Department of Industry 2017), to indicate whether sub-surface geology was likely to contain naturally occurring asbestos.

5.1.1

5.1.2 Naturally Occurring Asbestos

In 2015, NSW was mapped into regions of ‘low’, ‘medium’ and ‘high’ potential of naturally occurring asbestos (NOA) being present within rock, sediment or soil to a depth of approximately 10 metres (m) below ground level, based on their geological units. Most of NSW (more than 99%) was not mapped because these areas geologically have ‘very little to no’ potential for NOA.

The site is outside a mapped area and has very little to no potential of containing NOA. The verification of the presence or absence of NOA on the site is outside of the scope of this survey.

5.2 Asbestos and other Hazardous Materials Register

A detailed Asbestos and other Hazardous Materials Register of the site is provided in **Appendix A**. Each item in the Asbestos Register has been allocated a risk rating as defined in **Appendix B**.

Asbestos Register (friable and non-friable) includes samples where asbestos was detected during analysis. These are denoted ‘Yes’ for ‘Asbestos Detected’, or ‘Assume Yes’ in the case of similar materials that were not sampled.

In some cases, where products are very likely to contain asbestos, but a hazard prevents sampling (e.g. confined space, fall from height, electrocution etc) the 'Assume Yes' may also be used without a sample.

Materials with No Asbestos Detected includes samples where asbestos was not detected during analysis. These are denoted 'No' for 'Asbestos Detected', or 'Assume No' in the case of similar materials that were not sampled.

SMF Materials includes materials known or assumed to contain SMF. SMF can be found in the unbonded form: which has no adhesives or cements and the SMF is loose material, or in bonded form.

Lead-containing Paint. Paint chip samples were taken and sent to an external NATA-accredited laboratory and analysed for lead content. AS/NZS 4361.2-2017, defines lead paint as a paint containing more than 0.1% by weight of lead as determined by laboratory testing.

Lead-containing Dust. Representative samples of suspected lead-containing dust (greater than 3 g) were sent to an external NATA-accredited laboratory and analysed for lead content. The dust was compared to 'Residential A' health-based investigation level for soil contaminants, of 300 mg/kg of lead, per Schedule B1 of the *National Environment Protection (Assessment of Site Contamination) Measure 1999.*

Polychlorinated Biphenyls (PCBs). All electrical equipment suspected of containing capacitors were inspected, where safely practicable, and details noted for cross-referencing with the *ANZECC Identification of PCB-Containing Capacitors – 1997*. Where metal capacitors were not listed on the database, these capacitors are noted as suspected to contain PCBs.

Inaccessible Areas outlines areas excluded from surveying due to inaccessibility and restricted access areas present within the site. The scope of the survey was to identify all reasonably accessible ACM and other hazardous materials. Reasonably accessible does not extend to searching for concealed ACM etc within concrete encased structural beams or beneath concrete floors, within the structural fabric of the building including wall cavities/voids, behind other ACM, or any other locations which, to access, would cause structural damage that could potentially destabilise the structural integrity of the building. Given the way in which ACM was historically used in the construction of buildings, some ACM may only be detected during the course of subsequent demolition. See **Table 2**.

Table 2: Inaccessible Areas

Inaccessible Areas	Location
Hazard restrictions	
Limited access within Covid high-risk areas	Throughout site
No access within occupied patient rooms or theatres – services supplying rooms located within the ceiling voids predominantly observed from adjacent rooms, circulation spaces or gantry levels above.	Throughout site
Height restricted areas above 2m platform ladder	Throughout site
Inside confined spaces	Throughout site
Within floor ducts.	Throughout site
Live mechanical plant and equipment	Throughout site
No access to gaskets presumed to be present to pipework valve sets within riveted metal encased pipe insulation – Asbestos gaskets have been located on site.	Throughout site
Live electrical plant and equipment	Throughout site

All areas where access was not possible must be presumed to contain asbestos until proven otherwise. Refer to **Section 6** for recommendations relating to inaccessible areas.

5.3 Site Plans

Site diagrams and have been annotated with locations of ACM. Refer to **Appendix A**.

6 RECOMMENDATIONS

6.1 Asbestos Management

Asbestos materials must be removed prior to demolition in accordance with Chapter 8 - Asbestos of the *Work Health and Safety Regulation NSW 2017* (NSW) and the *Code of Practice: How to Safely Remove Asbestos* (SafeWork NSW, 2019). This is to ensure that workers are not exposed to airborne contaminants that exceed the exposure standards for asbestos, as stated in the *Workplace Exposure Standards for Airborne Contaminants* (Safe Work Australia, 2018).

Asbestos materials classified as being friable must be removed by a Class A licensed removal contractor and non-friable materials >10 sq m by a Class B licensed removal contractor. Specific recommendations for removal of some materials may also be made within the asbestos register.

6.2 SMF Removal

SMF materials should be removed under controlled conditions prior to demolition or refurbishment works in accordance with the *National Code of Practice for the Safe Use of Synthetic Mineral Fibres* [NOHSC:2006(1990)]. This is to ensure that workers are not exposed to airborne contaminants that exceed the exposure standards for man-made vitreous (silicate) fibres (WHS Regulation Chapter 3, Part 3.2, Division 7 Clauses 49 and 50).

6.3 PCB Management

All capacitors containing PCBs must be managed in accordance with EPA's *Polychlorinated Biphenyl (PCB) Chemical Control Order* 1997 and should be removed by a licensed electrical contractor prior to any demolition, refurbishment or decommissioning in accordance with the *Code of Practice for the*

*safe handling of equipment containing Polychlorinated Biphenyl (PCB) Electrical Contractors' Association of Australia (*1993*)* and *Polychlorinated Biphenyls Management Plan, Revised Edition April* 2003.

6.4 Lead Paint Management

Removal is to be undertaken prior to any demolition or refurbishment in accordance with *AS/NZS 4361.2:2017 Guide to hazardous paint management, Part 2: Lead paint in residential, public and commercial buildings*. Disposal of waste contaminated with lead (including lead paint waste) should be undertaken according to EPA *Waste Classification Guidelines, Part 1 Classifying Waste (*2014*).*

6.5 Lead-containing Dust Management

Lead-containing dust should be removed prior to demolition or refurbishment or other dust raising activities in accordance with *AS/NZS 4361.2:2017 Guide to hazardous paint management, Part 2: Lead paint in residential, public and commercial buildings*. Disposal of waste contaminated with lead (including lead paint waste) should be undertaken according to EPA *Waste Classification Guidelines, Part 1 Classifying Waste* (2014).

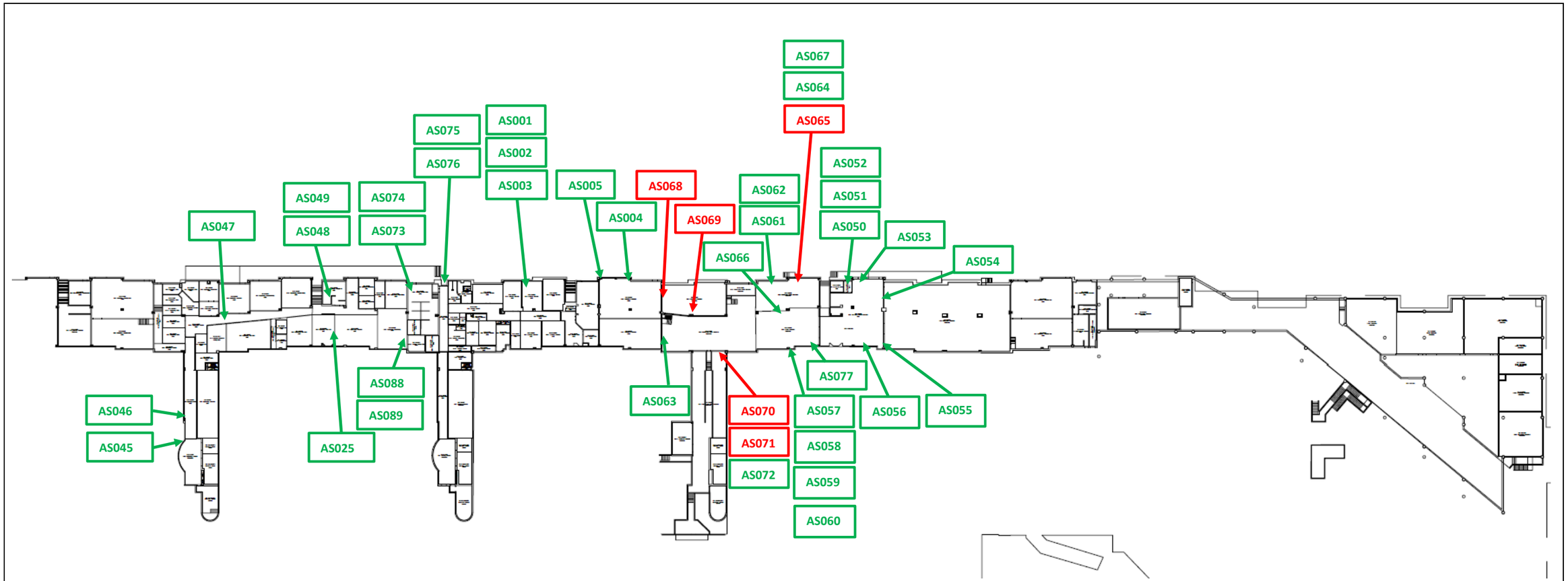
7 LEGISLATION AND INDUSTRY GUIDELINES

The following Legislation, codes of practice, guidelines and standards are considered to form an integral part or are relevant to the preparation of this report:

- *Work Health and Safety Act NSW* 2011*;*
- *Work Health and Safety Regulation NSW* 2017*;*
- *Code of Practice: How to manage and control asbestos in the workplace* (SafeWork NSW, dated August 2019);
- *Code of Practice: How to safely remove asbestos* (SafeWork NSW, dated August 2019);
- *Workplace Exposure Standards for Airborne Contaminants* (Safe Work Australia, December 2019;
- *Code of Practice: Demolition Work* (SafeWork NSW, dated August 2019);
- *AS 2601 - 2001 ''Australian Standard™ The Demolition of Structures, Section 1.6'';*
- *Health and Safety Laboratory UK – HSG 264 Asbestos The Survey Guide* 2012*;*
- *Health and Safety Laboratory UK - Methods for the Determination of Hazardous Substances (MDHS) 100 Surveying, sampling and assessment of asbestos-containing materials* 2001*;*
- *National Code of Practice for the Safe Use of Synthetic Mineral Fibres* [NOHSC:2006(1990)];
- *National Standard for Synthetic Mineral Fibres* [NOHSC: 1004 (1990)];
- *''Position Paper on Synthetic Mineral Fibres (SMF) & Occupational Health Issues'',* AIOH Exposure Standards Committee 2016;
- *AS/NZS 4361.2:2017 Guide to hazardous paint management, Part 2: Lead paint in residential, public and commercial buildings;*
- *AS/NZS 4361.1:2017 Guide to hazardous paint management Lead and other hazardous metallic pigments in industrial applications;*
- *National Code of Practice for the Control and Safe Use of Inorganic Lead at Work* [NOHSC: 2015 (1994)];
- *'Standard for the Uniform Scheduling of Medicines and Poisons No. 3', National Health and Medical Research Council (NHMRC),* Poisons Standard 2012;
- *Identification of PCB–containing capacitors* [(ANZECC) 1997];
- *Polychlorinated Biphenyls Management Plan,* [(ANZECC) 1999 revised 2003];
- *Code of Practice for the safe handling of equipment containing Polychlorinated Biphenyl (PCB) Electrical Contractors' Association of Australia,* 1993*;*
- *Polychlorinated Biphenyl (PCB) Chemical Control Order* 1997*;*
- *Department of Industry (2017). Naturally Occurring Asbestos in NSW Map. Available from: https://trade.maps.arcgis.com/apps/PublicInformation/index.html?appid=87434b6ec7dd4aba8cb664d8e646fb06.* Accessed on 7 July 2017; and
- Heads of Asbestos Coordination Authorities (2015). *Mapping of Naturally Occurring Asbestos in NSW – Known and Potential for Occurrence. Prepared by the Heads of Asbestos Coordination Authorities in July 2015*.

Appendix A ASBESTOS AND OTHER HAZARDOUS MATERIALS REGISTER

John Hunter Hospital – Level 0 – Asbestos Sample Locations

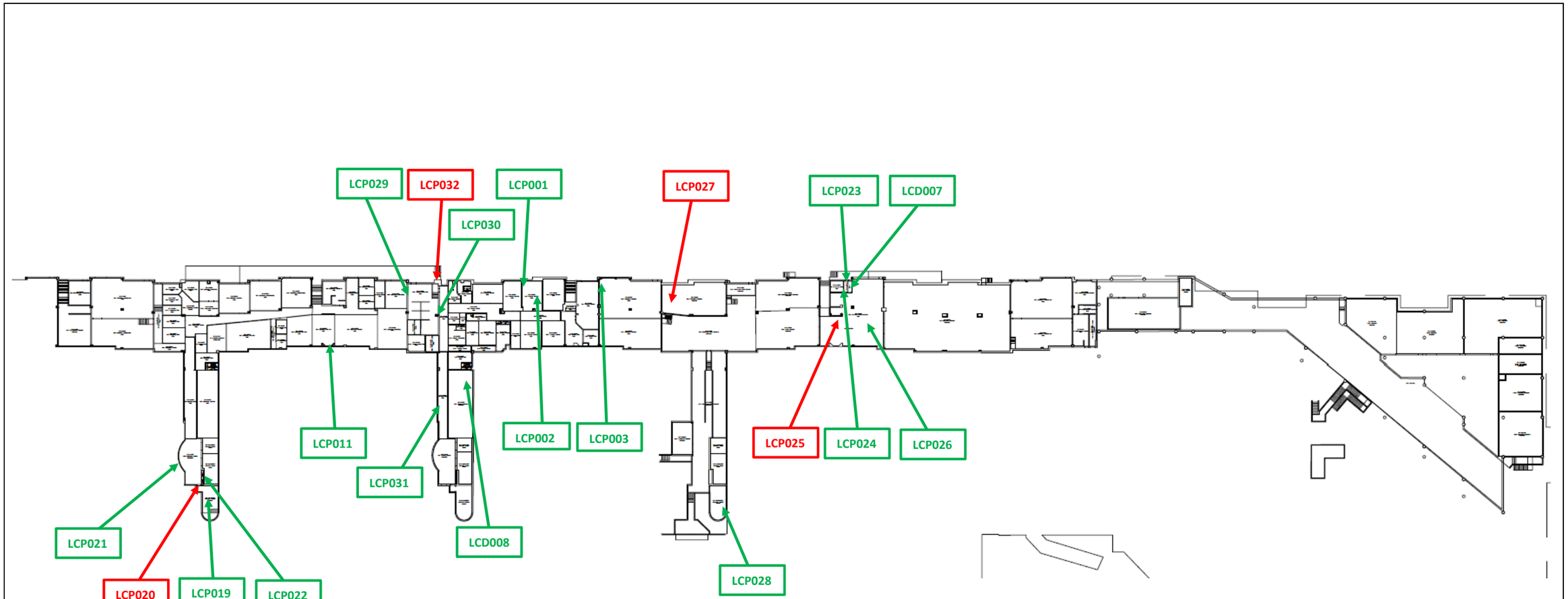


Sample Location Points

ASXXX – Positive ACM	ASXXX – Negative ACM
LCPXXX– Positive lead paint	LCPXXX – Negative lead paint
LCDXXX - Positive lead dust	LCDXXX – Negative lead dust
Visual – Presumed ACM	

Source: Client supplied.

John Hunter Hospital – Level 0 – Lead Paint/Dust Sample Locations

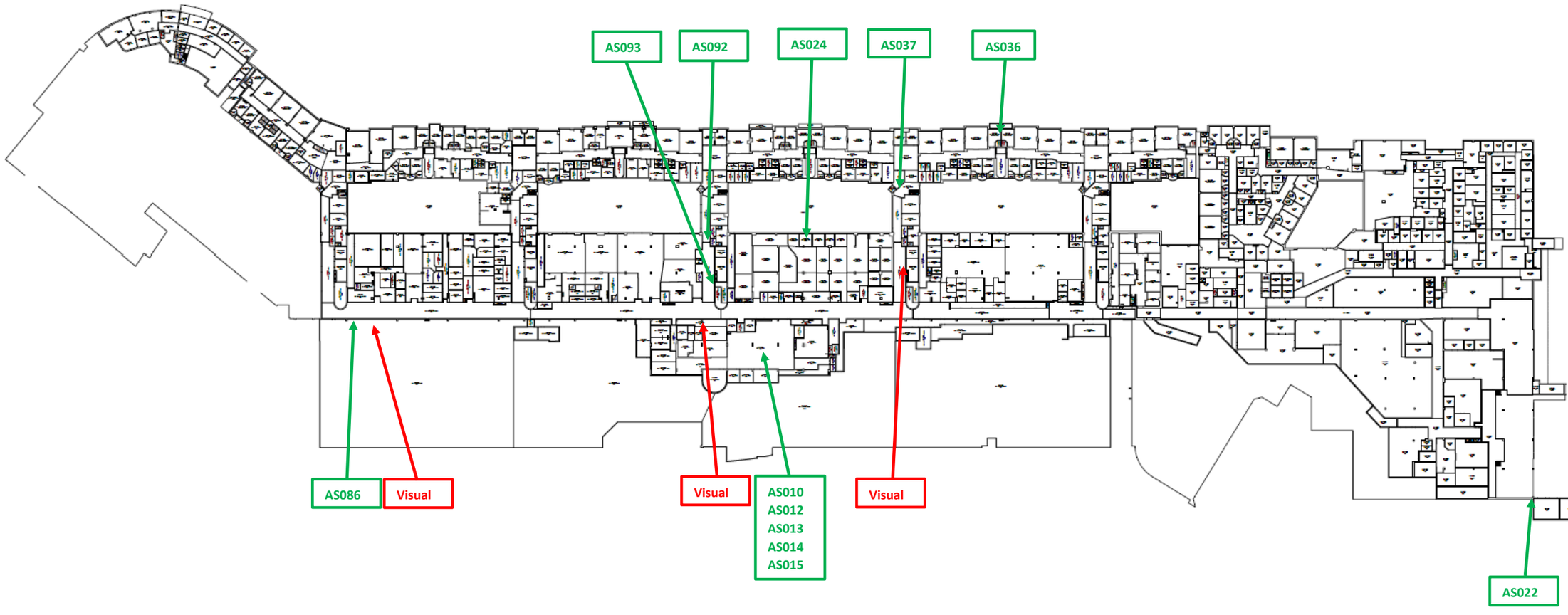


Sample Location Points

ASXXX – Positive ACM	ASXXX – Negative ACM
LCPXXX– Positive lead paint	LCPXXX – Negative lead paint
LCDXXX - Positive lead dust	LCDXXX – Negative lead dust
Visual – Presumed ACM	

Source: Client supplied.

John Hunter Hospital – Level 1 - Asbestos Sample Locations

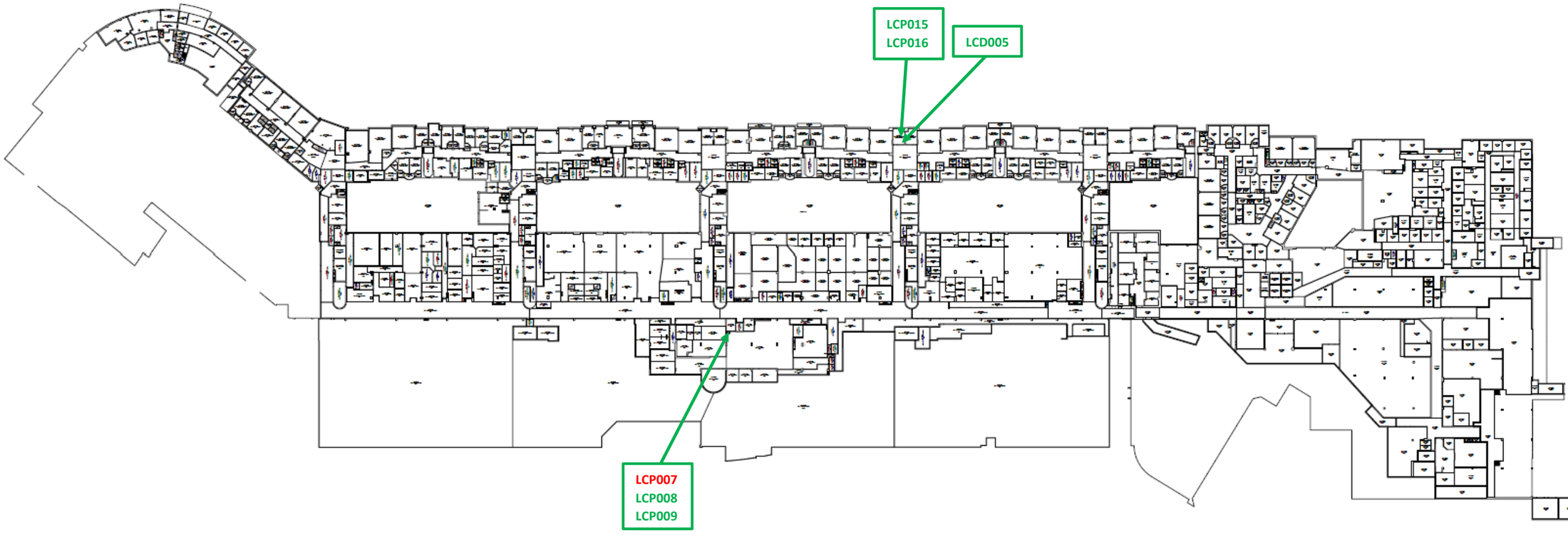


Sample Location Points

ASXXX – Positive ACM	ASXXX – Negative ACM
LCPXXX– Positive lead paint	LCPXXX – Negative lead paint
LCDXXX - Positive lead dust	LCDXXX – Negative lead dust
Visual – Presumed ACM	

Source: Client supplied.

John Hunter Hospital – Level 1 – Lead Paint/Dust Sample Locations

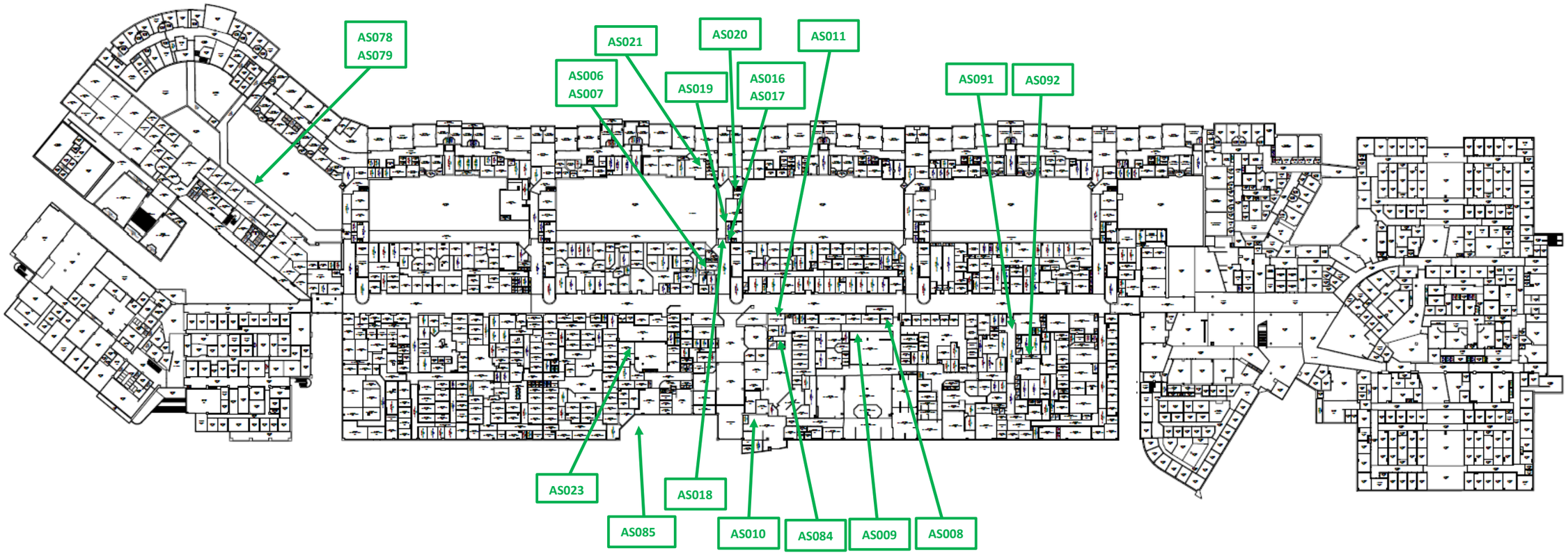


Sample Location Points

ASXXX – Positive ACM	ASXXX – Negative ACM
LCPXXX– Positive lead paint	LCPXXX – Negative lead paint
LCDXXX - Positive lead dust	LCDXXX – Negative lead dust
Visual – Presumed ACM	

Source: Client supplied.

John Hunter Hospital – Level 2 - Asbestos Sample Locations

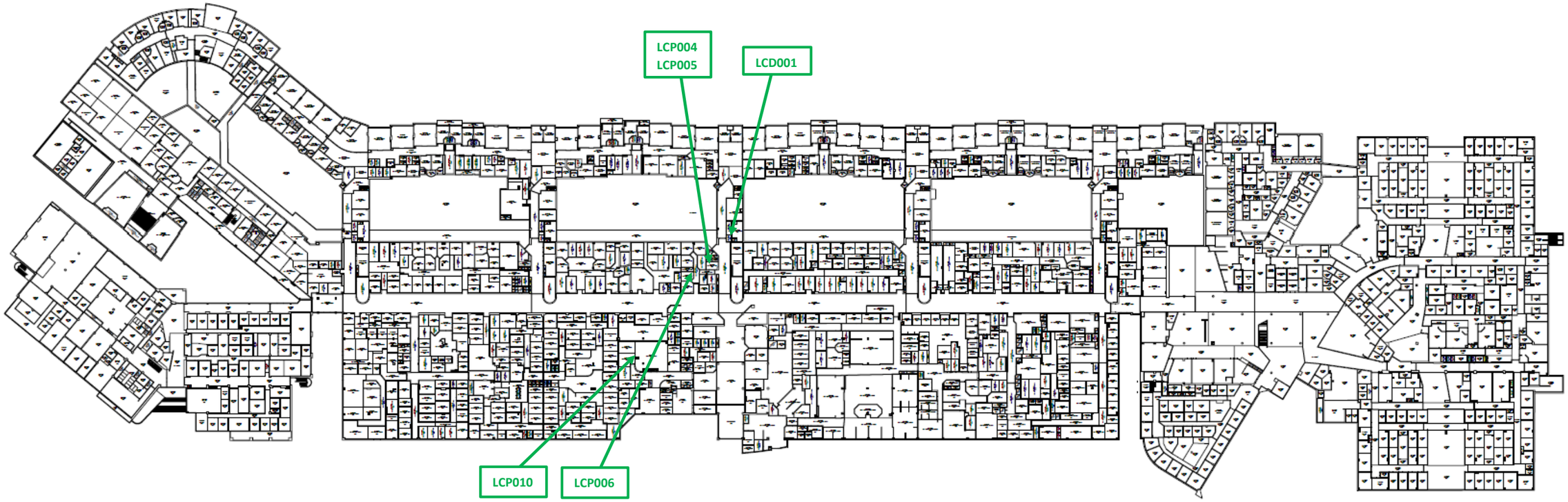


Sample Location Points

ASXXX – Positive ACM	ASXXX – Negative ACM
LCPXXX– Positive lead paint	LCPXXX – Negative lead paint
LCDXXX - Positive lead dust	LCDXXX – Negative lead dust
Visual – Presumed ACM	

Source: Client supplied.

John Hunter Hospital – Level 2 - Lead Paint/Dust Sample Locations

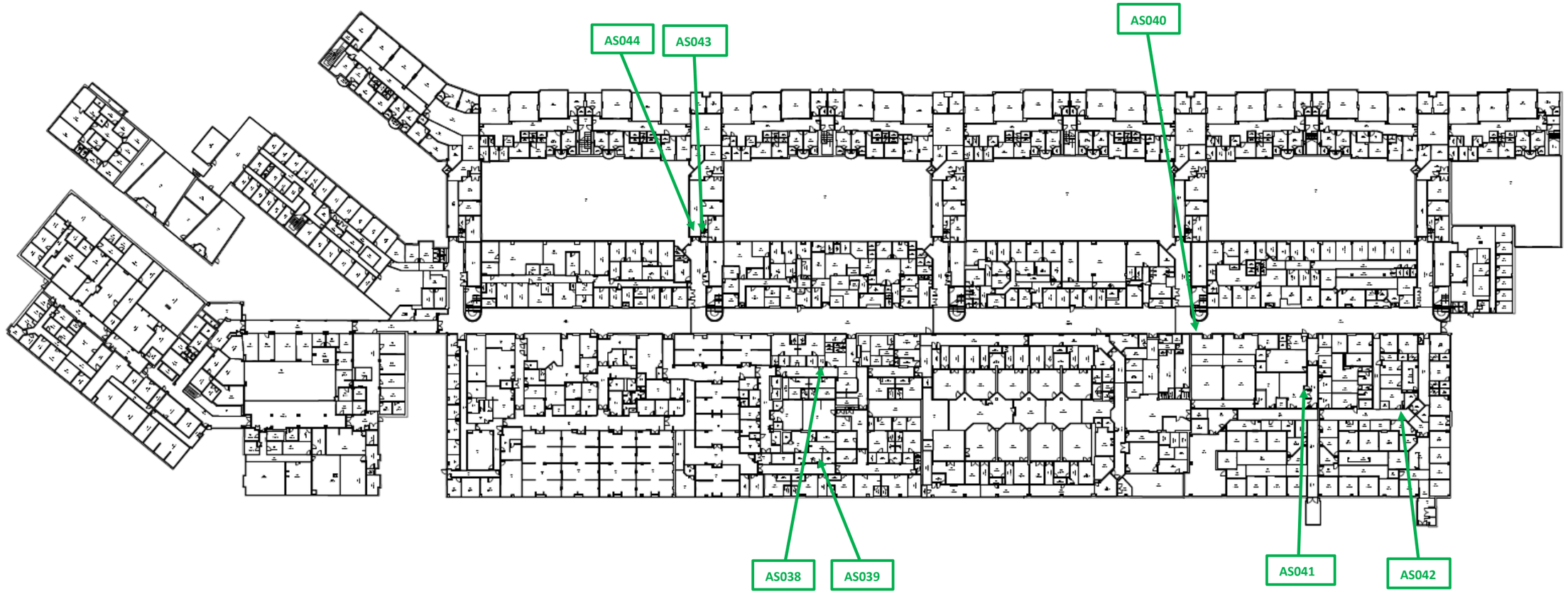


Sample Location Points

ASXXX – Positive ACM	ASXXX – Negative ACM
LCPXXX– Positive lead paint	LCPXXX – Negative lead paint
LCDXXX - Positive lead dust	LCDXXX – Negative lead dust
Visual – Presumed ACM	

Source: Client supplied.

John Hunter Hospital – Level 3 - Asbestos Sample Locations

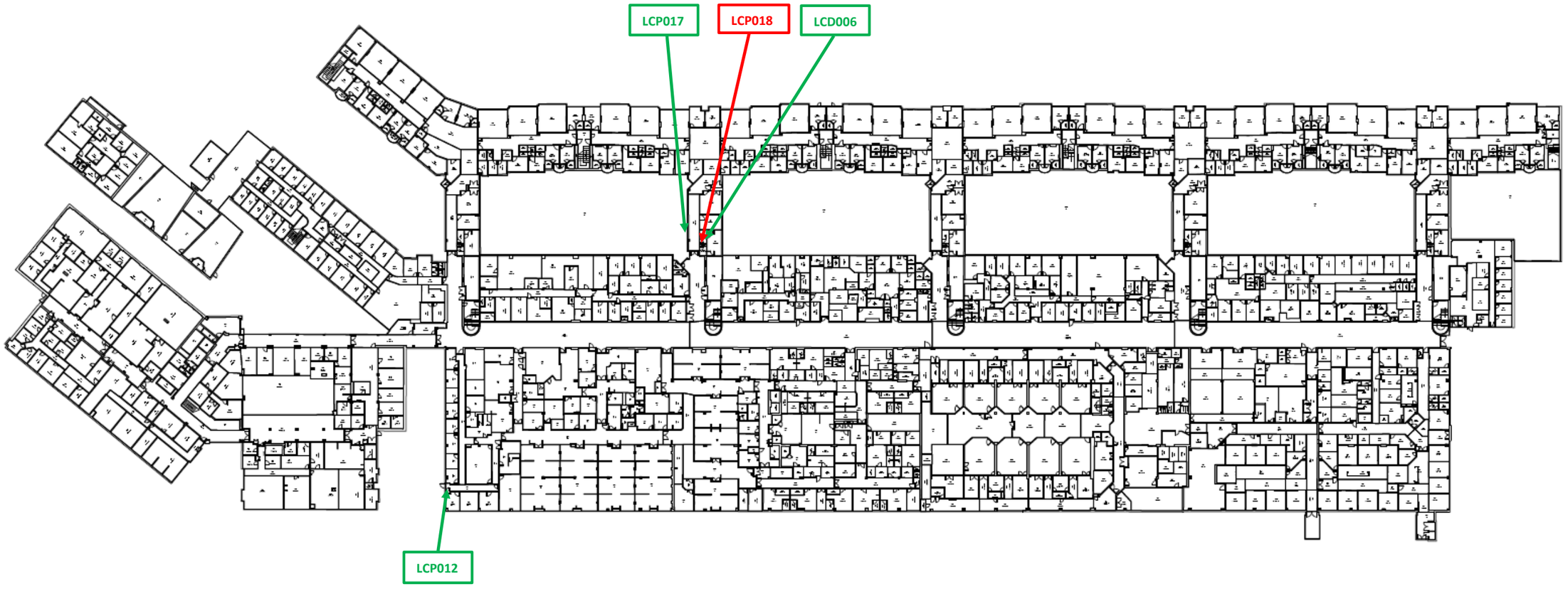


Sample Location Points

ASXXX – Positive ACM	ASXXX – Negative ACM
LCPXXX– Positive lead paint	LCPXXX – Negative lead paint
LCDXXX - Positive lead dust	LCDXXX – Negative lead dust
Visual – Presumed ACM	

Source: Client supplied.

John Hunter Hospital – Level 3 - - Lead Paint/Dust Sample Locations

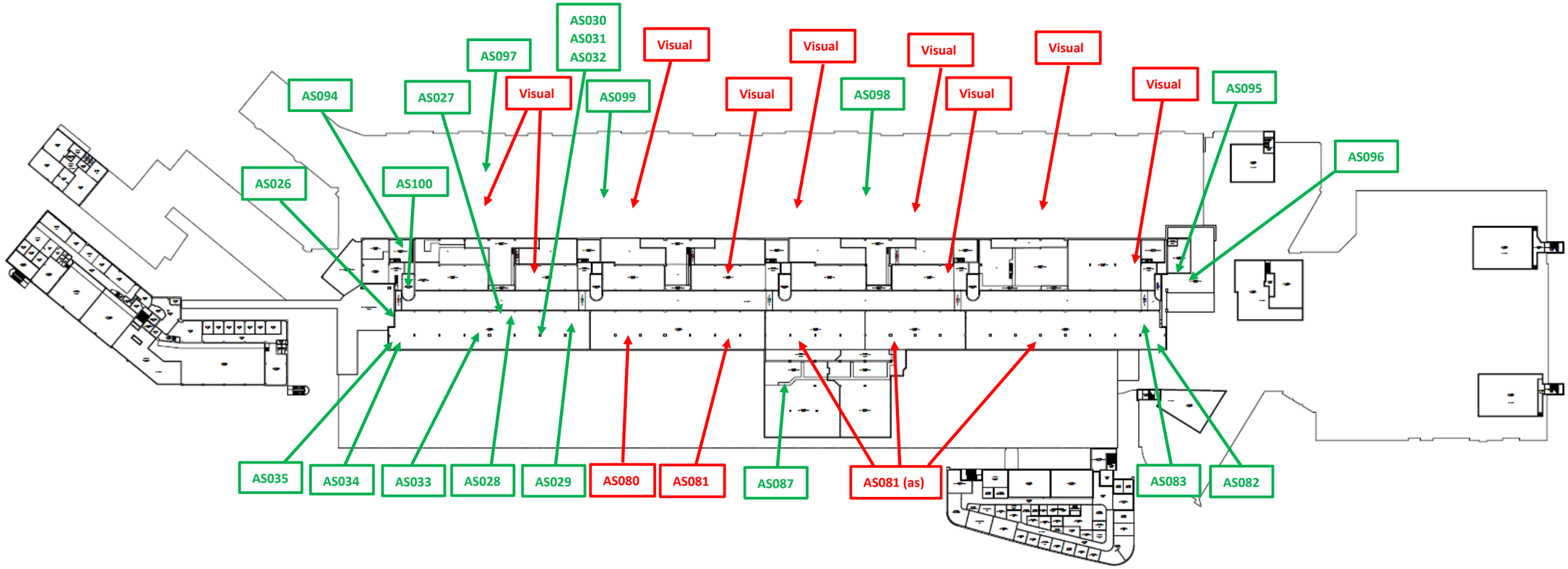


Sample Location Points

ASXXX – Positive ACM	ASXXX – Negative ACM
LCPXXX– Positive lead paint	LCPXXX – Negative lead paint
LCDXXX - Positive lead dust	LCDXXX – Negative lead dust
Visual – Presumed ACM	

Source: Client supplied.

John Hunter Hospital – Level 4- Asbestos Sample Locations

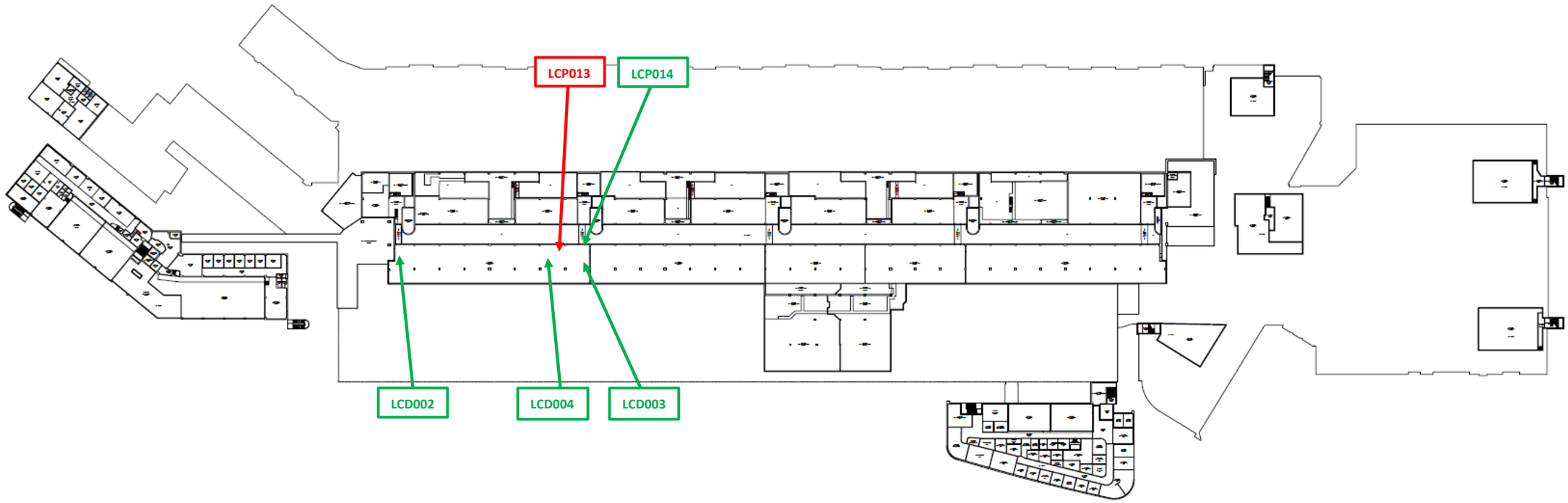


Sample Location Points

ASXXX – Positive ACM	ASXXX – Negative ACM
LCPXXX– Positive lead paint	LCPXXX – Negative lead paint
LCDXXX - Positive lead dust	LCDXXX – Negative lead dust
Visual – Presumed ACM	

Source: Client supplied.

John Hunter Hospital – Level 4- Lead Paint/Dust Sample Locations



Sample Location Points

ASXXX – Positive ACM	ASXXX – Negative ACM
LCPXXX– Positive lead paint	LCPXXX – Negative lead paint
LCDXXX - Positive lead dust	LCDXXX – Negative lead dust
Visual – Presumed ACM	

Source: Client supplied.

Asbestos Register

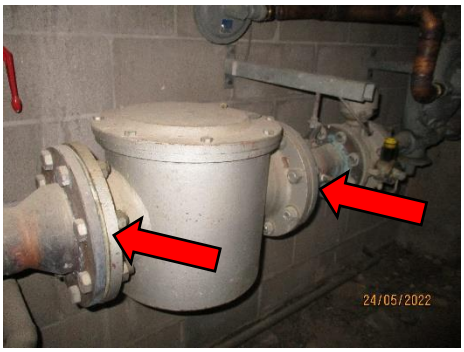
Level 0 Register

Sample No.: PRJ000914-AS065	
	**Asbestos Detected:** **Yes**
	Friability: Friable
	Location: Internal
	Level 0, 0029 Boiler Room, Bunderus Boiler, gaskets to rear of 3 x boilers
	Extent 3 Units

Sample No.: PRJ000914-AS068	
	**Asbestos Detected:** **Yes**
	Friability: Friable
	Location: Internal
	Level 0, 0024 Compressor Room, gaskets to No.1 & No.2 receiver tanks and pipework – 8 no. valve sets.
	Extent 16 Units

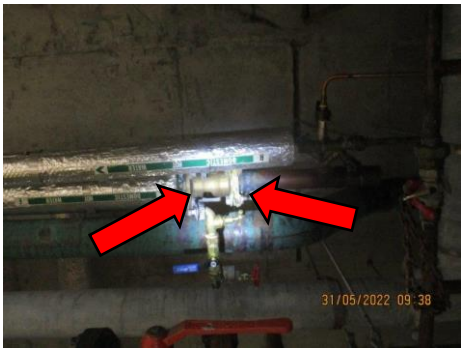
Sample No.: PRJ000914-AS069	
	**Asbestos Detected:** **Yes**
	Friability: Friable
	Location: Internal
	Level 0, 0024 Compressor Room, gasket to compressed air pipework flange Further similar gaskets are presumed to be present on this service line within the building.
	Extent 1 Unit

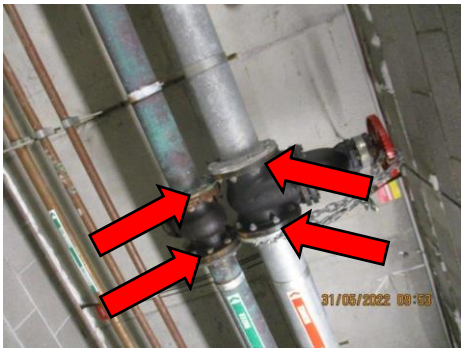
Sample No.: PRJ000914-AS070	
	**Asbestos Detected:** **Yes**
	Friability: Friable
	Location: Internal
	Level 0, 0025 Under Croft Plant area, gaskets to natural gas isolation valve Further similar gaskets are presumed to be present on this service line within the building.
	Extent 1 Unit

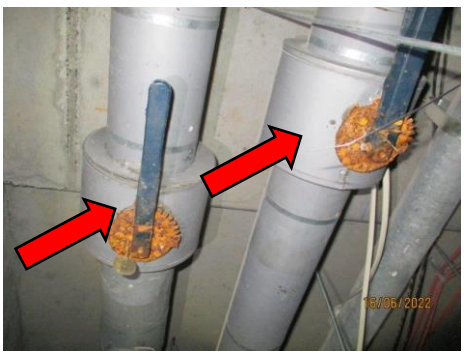
Sample No.: PRJ000914-AS071	
	**Asbestos Detected:** **Yes**
	Friability: Friable
	Location: Internal
	Level 0, 0025 Under Croft Plant area, gaskets to pipework Further similar gaskets are presumed to be present on this service line within the building.
	Extent 6 Units

Asbestos Register

Level 1 Register

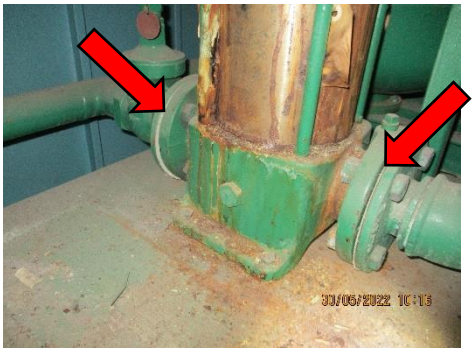
Visual Assessment: Height Restricted.	
	**Asbestos Detected:** **Presumed**
	Friability: Friable
	Location: Internal
	Level 1, Internal, Under Croft, NW end, gaskets to hot water valve sets – too high to sample. Further similar gaskets are presumed to be present on this service line within the building.
	Extent 2 Units

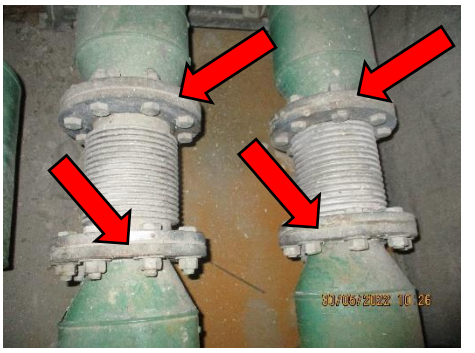
Visual Assessment: Height Restricted.	
	**Asbestos Detected:** **Presumed**
	Friability: Friable
	Location: Internal
	Level 1 (Mezzanine), Internal, Plant area back of CSSD, gaskets to fire and cold-water valve sets – too high to sample. Further similar gaskets are presumed to be present on this service line within the building.
	Extent 4 Units

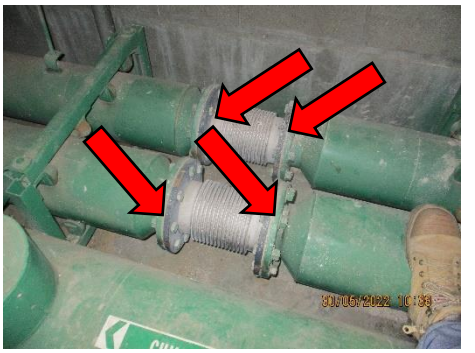
Visual Assessment: Height Restricted.	
	**Asbestos Detected:** **Presumed**
	Friability: Friable
	Location: Internal
	Level 1, Circulation areas adjacent G1 Lifts, presumed gaskets between encased valve sets – too high to sample, and metal casing riveted shut. Further similar gaskets are presumed to be present on this service line within the building.
	Extent 4 Units

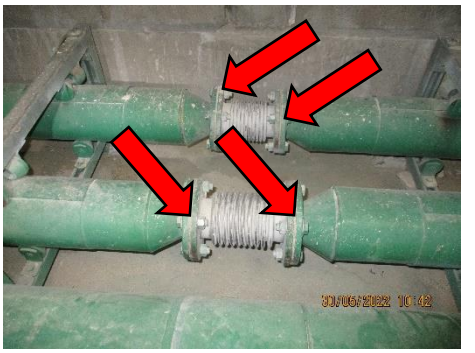
Asbestos Register

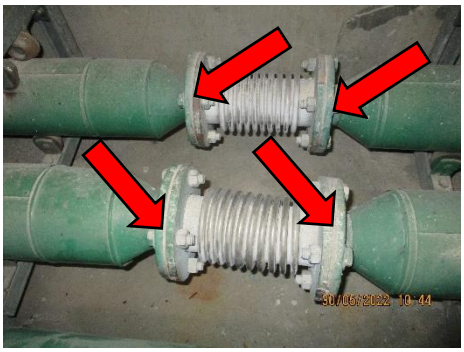
Level 4 Register

Sample No.: PRJ000914-AS080	
	**Asbestos Detected:** **Yes**
	Friability: Friable
	Location: Internal
	Level 4, Internal, Plant Room, gasket to non-potable water pump valves. Further similar gaskets are presumed to be present on this service line within the building.
	Extent 2 Units

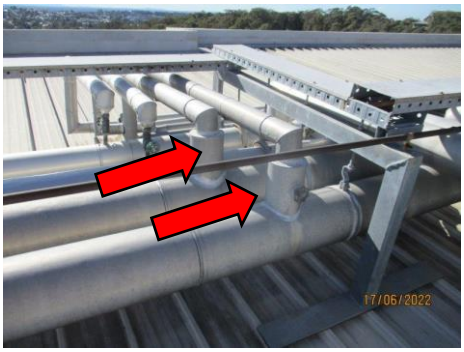
Sample No.: PRJ000914-AS081	
	**Asbestos Detected:** **Yes**
	Friability: Friable
	Location: Internal
	Level 4, Internal, Plant Room, gaskets to hot water pipework valve sets (2 gaskets per valve set). Further similar gaskets are presumed to be present on this service line within the building.
	Extent 16 Units

Sample No.: Same as: PRJ000914-AS081	
	**Asbestos Detected:** **Yes**
	Friability: Friable
	Location: Internal
	Level 4, Internal, Plant Room, gaskets to hot water pipework valve sets (2 gaskets per valve set). Further similar gaskets are presumed to be present on this service line within the building.
	Extent 16 Units

Sample No.: Same as: PRJ000914-AS081	
	**Asbestos Detected:** **Yes**
	Friability: Friable
	Location: Internal
	Level 4, Internal, Plant Room, gaskets to hot water pipework valve sets (2 gaskets per valve set). Further similar gaskets are presumed to be present on this service line within the building.
	Extent 16 Units

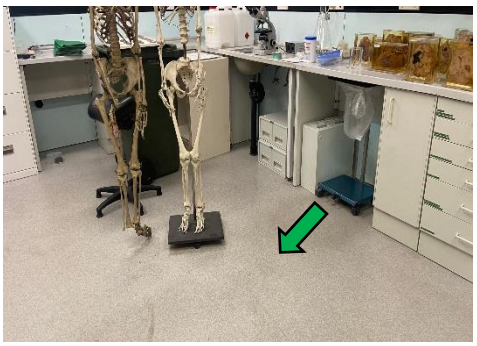
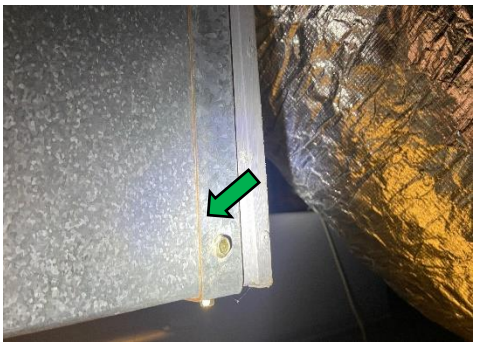
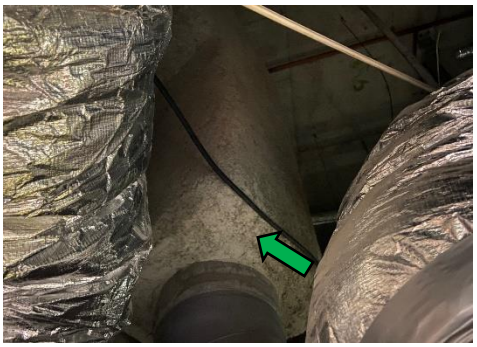
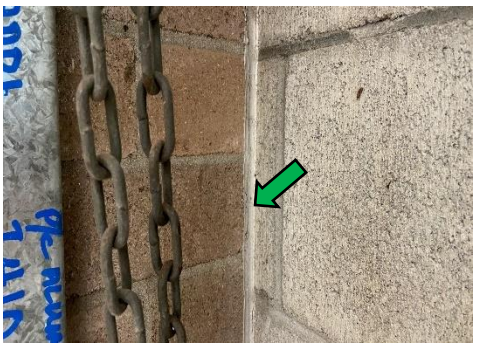
Sample No.: Same as: PRJ000914-AS081		
	**Asbestos Detected:**	**Yes**
	Friability:	Friable
	Location:	Internal
	Level 4, Internal, Plant Room, gaskets to hot water pipework valve sets (2 gaskets per valve set). Further similar gaskets are presumed to be present on this service line within the building.	
	Extent	16 Units

Sample No.: Same as: PRJ000914-AS081		
	**Asbestos Detected:**	**Presumed**
	Friability:	Friable
	Location:	Internal
	Level 4, Internal, Plant Rooms, asbestos gaskets presumed to be present to pipework valve sets within riveted metal encased pipe insulation. Further similar gaskets are presumed to be present on this service line within the building.	
	Extent	Unquantified

Sample No.: Same as: PRJ000914-AS081		
	**Asbestos Detected:**	**Presumed**
	Friability:	Friable
	Location:	External
	Level 4, External, Roof, asbestos gaskets presumed to be present to pipework valve sets within riveted metal encased pipe insulation. Further similar gaskets are presumed to be present on this service line within the building.	
	Extent	Unquantified

Level 0 Register

Materials with No Asbestos Detected

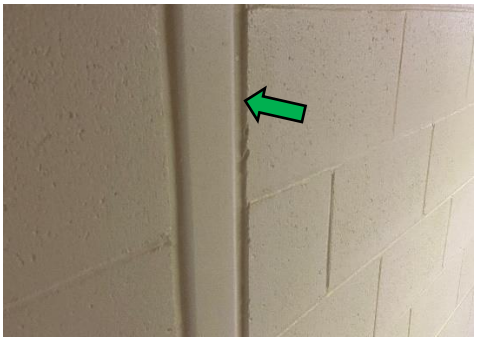
	**Sample No.: PRJ000914-AS001** **Asb Detected:** No **Location:** Internal Level 0, Mortuary, Laboratory Room 0036 & 0037 – mottled grey vinyl floor covering and amber adhesive.
	**Sample No.: PRJ000914-AS002** **Asb Detected:** No **Location:** Internal Level 0, Mortuary, Laboratory Room 0036 & 0037, ceiling space – duct mastic, grey rubbery mastic.
	**Sample No.: PRJ000914-AS003** **Asb Detected:** No **Location:** Internal Level 0, Mortuary, Laboratory Room 0036 & 0037, ceiling space – sprayed SMF insulation to ductwork
	**Sample No.: PRJ000914-AS004** **Asb Detected:** No **Location:** Internal Level 0, Mortuary Loading Dock, adjacent roller doors, between concrete brickwork walls – construction mastic, grey rubbery mastic.

Sample No.: PRJ000914-AS005	
Asb Detected:	No
Location:	Internal

Level 0, Mortuary Loading Dock, between ceiling slab and brick and concrete walls – "Kaowool" SMF.

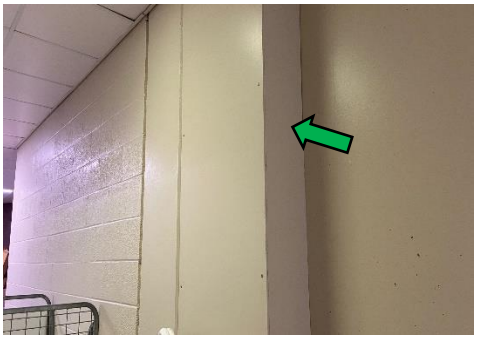
Sample No.: PRJ000914-AS025	
Asb Detected:	No
Location:	Internal

Level 0, Back of House, Engineering, adjacent metal mesh – fibre cement wall.



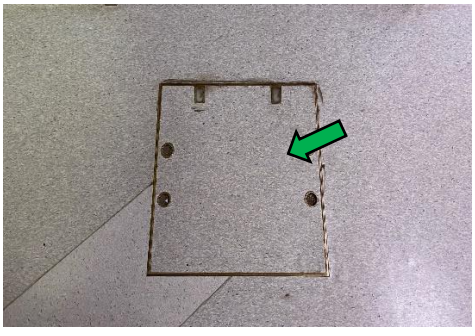
Sample No.: PRJ000914-AS045	
Asb Detected:	No
Location:	Internal

Level 0, Internal, BOH, Engineering corridor, lift lobby, expansion joint, grey rubbery mastic



Sample No.: PRJ000914-AS046	
Asb Detected:	No
Location:	Internal

Level 0, Internal, BOH, Engineering corridor, column adjacent furniture storeroom, compressed fibre cement boxing



Sample No.: PRJ000914-AS047	
Asb Detected:	No
Location:	Internal

Level 0, Internal, BOH, Engineering corridor, mottled grey floor covering and yellow adhesive.

No access within floor ducts. Similar inaccessible ducts seen throughout hospital.

Sample No.: PRJ000914-AS048	
Asb Detected:	No
Location:	Internal

Level 0, Internal, BOH, Engineering, male changing room, in floor around column, bitumen expansion joint.

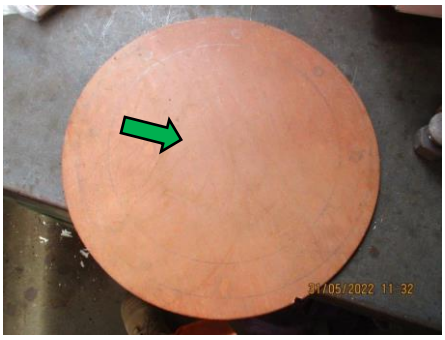
Sample No.: PRJ000914-AS049	
Asb Detected:	No
Location:	Internal

Level 0, Internal, BOH, Engineering, male changing room, sprayed SMF insulation to beam and ducting

Sample No.: PRJ000914-AS088	
Asb Detected:	No
Location:	Internal

Level 0, Engineering, Fitters Workshop, roll of pre-cut grey gasket sheet material

Modern non-asbestos gasket replacement material



Sample No.: PRJ000914-AS089	
Asb Detected:	No
Location:	Internal

Level 0, Engineering, Fitters Workshop, Orange gasket template

Modern non-asbestos gasket replacement material

Sample No.: PRJ000914-AS050	
Asb Detected:	No
Location:	Internal

Level 0, Internal, Plantroom (0020) lobby, mastic to duct joints, grey rubbery mastic

Sample No.: PRJ000914-AS051	
Asb Detected:	No
Location:	Internal

Level 0, Internal, Plantroom (0020) lobby, grey floor covering, no adhesive present

Sample No.: PRJ000914-AS052	
Asb Detected:	No
Location:	Internal

Level 0, Internal, Plantroom (0020) lobby, darkroom partition wall, fibre cement

Sample No.: PRJ000914-AS053	
Asb Detected:	No
Location:	Internal

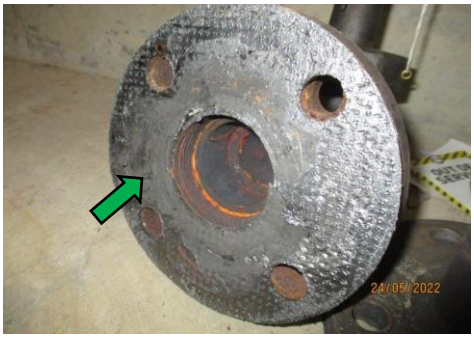
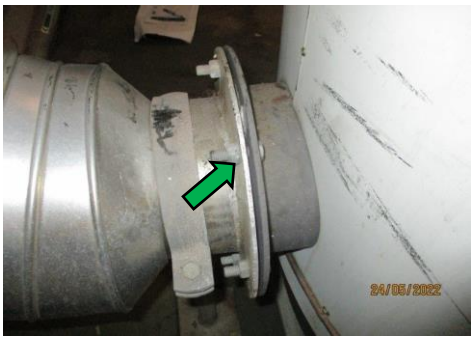
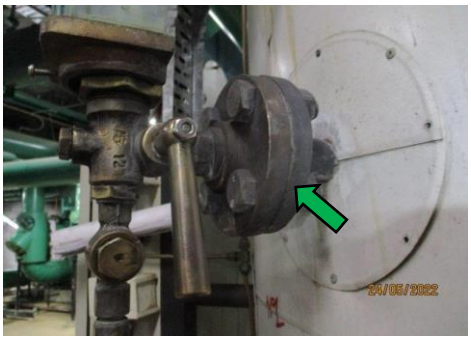
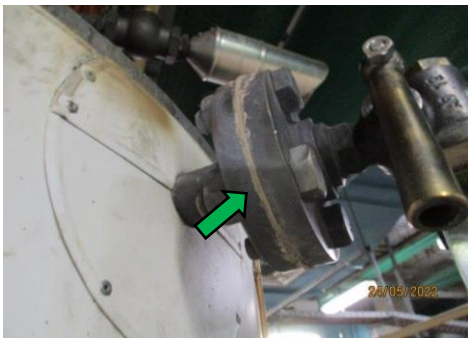
Level 0, Internal, 0020 Plantroom, adjacent roller shutter, expansion joint in walls, Grey rubbery mastic

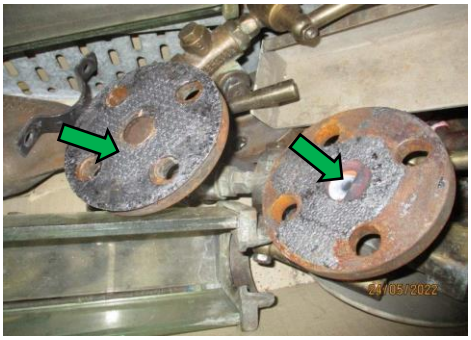
Sample No.: PRJ000914-AS054	
Asb Detected:	No
Location:	Internal

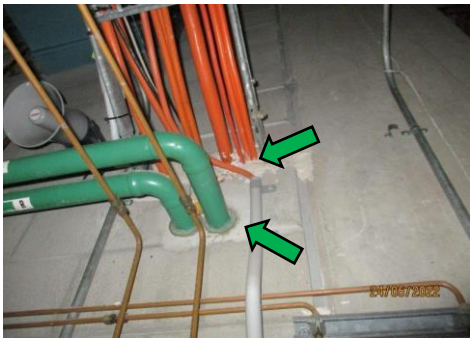
Level 0, Internal, 0020 Plantroom, adjacent chiller room, panel to stored door, fibre cement.

Sample No.: PRJ000914-AS055	
Asb Detected:	No
Location:	Internal

Level 0, Internal, 0020 Plantroom, mastic around chilled water pipework penetration, grey rubbery mastic

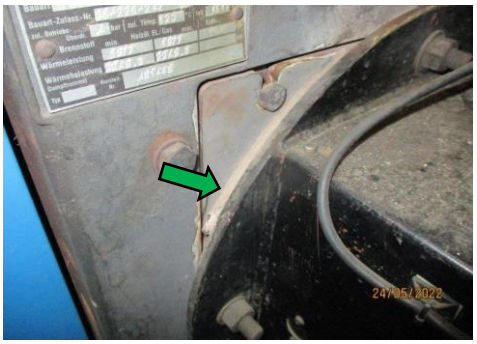
	**Sample No.: PRJ000914-AS056** **Asb Detected:** No **Location:** Internal Level 0, Internal, 0020 Plantroom, perforated ceiling panels
	**Sample No.: PRJ000914-AS057** **Asb Detected:** No **Location:** Internal Level 0, Internal, 0029 Boiler Room, SW wall, gasket residue to redundant pipe flanges
	**Sample No.: PRJ000914-AS058** **Asb Detected:** No **Location:** Internal Level 0, Internal, 0029 Boiler Room, Steam Boiler No.1, gasket to rear
	**Sample No.: PRJ000914-AS059** **Asb Detected:** No **Location:** Internal Level 0, Internal, 0029 Boiler Room, Steam Boiler No.1, north side, gaskets to flanges
	**Sample No.: PRJ000914-AS060** **Asb Detected:** No **Location:** Internal Level 0, Internal, 0029 Boiler Room, Steam Boiler No.1, NE side, gaskets to flanges

	**Sample No.: PRJ000914-AS061** **Asb Detected:** No **Location:** Internal Level 0, Internal, 0029 Boiler Room, Adj Fire door to 0025, gasket residue to redundant flanges
	**Sample No.: PRJ000914-AS077** **Asb Detected:** No **Location:** Internal Level 0, Internal, 0029 Boiler Room, Gaskets to grey tank
	**Visual Assessment** **Asb Detected:** No **Location:** Internal Level 0, Internal, 0029 Boiler Room, rubber gaskets to medical air plant
	**Sample No.: PRJ000914-AS062** **Asb Detected:** No **Location:** Internal Level 0, Internal, 0029 Boiler Room, Adj Fire door to 0025, loose gasket (taken away as sample)
	**Sample No.: PRJ000914-AS063** **Asb Detected:** No **Location:** Internal Level 0, Internal, 0029 Boiler Room, penetration packing on AHU



Similar to Sample No.: PRJ000914-AS063	
Asb Detected:	No
Location:	Internal
Level 0, Internal, 0029 Boiler Room, penetration packing	

Sample No.: PRJ000914-AS064	
Asb Detected:	No
Location:	Internal
Level 0, Internal, 0029 Boiler Room, black gaskets to secondary water heating pumps	



Sample No.: PRJ000914-AS066	
Asb Detected:	No
Location:	Internal
Level 0, Internal, 0029 Boiler Room, Bunderus Boiler, gasket to end cap	

Sample No.: PRJ000914-AS067	
Asb Detected:	No
Location:	Internal
Level 0, Internal, 0029 Boiler Room, mastic to AC duct, grey rubbery mastic	

Sample No.: PRJ000914-AS072	
Asb Detected:	No
Location:	Internal
Level 0, Internal, 0025 under croft plant area, gasket to soil pipe, rubber	

Similar to Sample No.: PRJ000914-AS067	
Asb Detected:	No
Location:	Internal
Level 0, Internal, Room 0055, mastic to duct joints, grey rubbery mastic	

Sample No.: PRJ000914-AS073	
Asb Detected:	No
Location:	Internal
Level 0, Internal, Room 0055, bitumen pad beneath sink	

Sample No.: PRJ000914-AS074	
Asb Detected:	No
Location:	Internal
Level 0, Internal, Room 0055, by entrance, grey floor covering and amber adhesive	

Sample No.: PRJ000914-AS075	
Asb Detected:	No
Location:	External
Level 0, External, adjacent ambulance charging area, horizontal panel to underside of entrance canopy, fibre cement material	

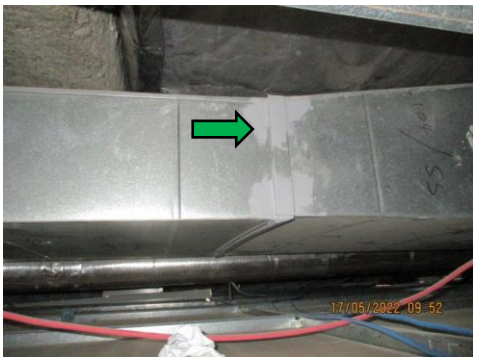
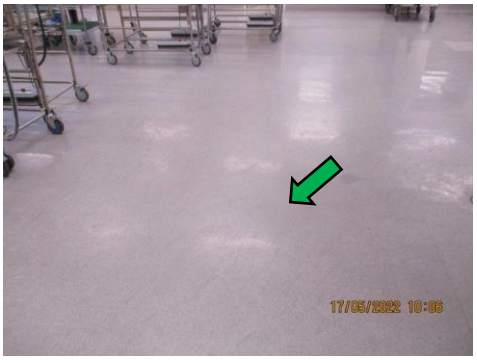
Sample No.: PRJ000914-AS076	
Asb Detected:	No
Location:	External
Level 0, External, adjacent ambulance charging area, expansion joints between brick wall and concrete, bitumen	

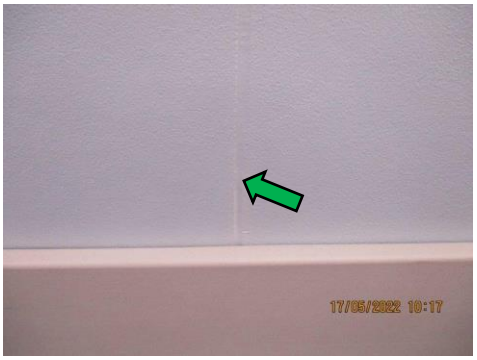
Visual Assessment – Modern Appearance	
Asb Detected:	Assume No
Location:	Internal
Level 0, Substation 2, Modern electrical equipment, presume non-asbestos backing boards and components.	

Visual Assessment – Modern Appearance	
Asb Detected:	Assume No
Location:	Internal
Level 0, Substation 2, High voltage area, Modern electrical equipment, presume non-asbestos backing boards and components.	

Level 1 Register

Materials with No Asbestos Detected

	**Sample No.: PRJ000914-AS012**	
	Asb Detected:	No
	Location:	Internal
	Level 1, Central Sterilisation Department, throughout, ceiling space – sprayed SMF insulation to ductwork. Similar sprayed SMF insulation present to ductwork, beams columns and ceilings throughout hospital.	
	**Sample No.: Same as PRJ000914-AS010**	
	Asb Detected:	Assume No
	Location:	Internal
	Level 1, Central Sterilisation Department, throughout, ceiling space, air conditioning ductwork – mastic, grey rubbery mastic.	
	**Sample No.: PRJ000914-AS013**	
	Asb Detected:	No
	Location:	Internal
	Level 1, Central Sterilisation Department, fire hose reel cupboard (1059) ceiling space – vermiculite within cable penetration. Similar vermiculite observed throughout hospital, around and within service penetrations.	
	**Sample No.: PRJ000914-AS014**	
	Asb Detected:	No
	Location:	Internal
	Level 1, Central Sterilisation Department – mottled grey vinyl floor covering and amber adhesive.	



Sample No.: PRJ000914-AS015	
Asb Detected:	No
Location:	Internal

Level 1, Central Sterilisation Department, construction joint mastic between wall seams, beige, rubbery mastic.

Similar to Sample No.: PRJ000914-AS005	
Asb Detected:	No
Location:	Internal

Level 1, Central Sterilisation Department, between ceiling slab and brick and concrete walls – "Kaowool" SMF.

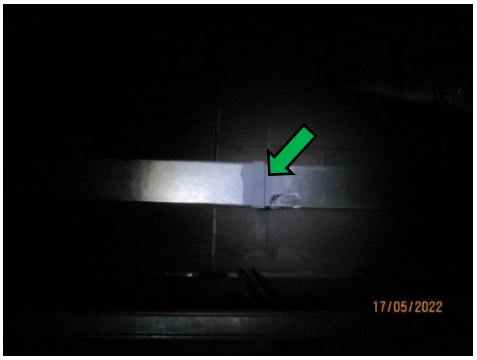
Sample No.: PRJ000914-AS022	
Asb Detected:	No
Location:	External

Level 1, Back of House, throughout, at base of concrete walls and columns – grey construction mastic, grey rubbery mastic.

Sample No.: Same as: PRJ000914-AS018	
Asb Detected:	Assume No
Location:	Internal

Level 1, Back of House, Fire stairs F1 to K1, single fire door below fire stairs (manufacture date 198_) – fire door core.

Similar fire doors and modern non-asbestos replacements observed throughout hospital in various locations.

	**Sample No.: Same as: PRJ000914-AS016** **Asb Detected:** Assume No **Location:** Internal Level 1, Kitchen, Dry Storeroom (1041) ceiling space, air conditioning ductwork – mastic, grey rubbery mastic.
	**Sample No.: PRJ000914-AS024** **Asb Detected:** No **Location:** Internal Level 1, Kitchen, Offices 1023 to 1025, floor covering – Beige vinyl floor covering and amber adhesive.
	**Sample No.: Same as: PRJ000914-AS017** **Asb Detected:** Assume No **Location:** Internal Level 1, G1, adjacent fire door and staff changerooms 1207 & 1210, ceiling space – sprayed SMF insulation to structure and ductwork. Similar sprayed SMF insulation present to ductwork, beams columns and ceilings throughout hospital.
	**Sample No.: Same as: PRJ000914-AS012** **Asb Detected:** Assume No **Location:** Internal Level 1, G1, adjacent fire door and staff changerooms 1207 & 1210, ceiling space – vermiculite within electrical penetrations. Similar vermiculite observed throughout hospital, around and within service penetrations.

Sample No.: Same as: PRJ000914-AS030	
Asb Detected:	Assume No
Location:	Internal

Level 1, G1, adjacent fire door and staff changerooms 1207 & 1210, ceiling space, penetrations – mastic.

Sample No.: PRJ000914-AS036	
Asb Detected:	No
Location:	Internal

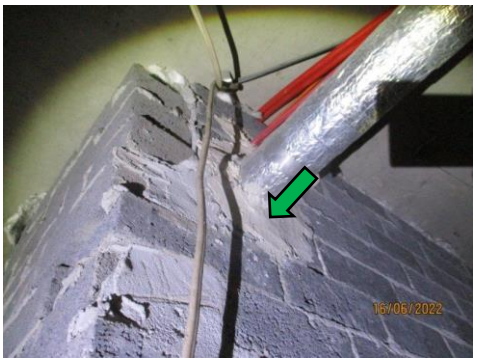
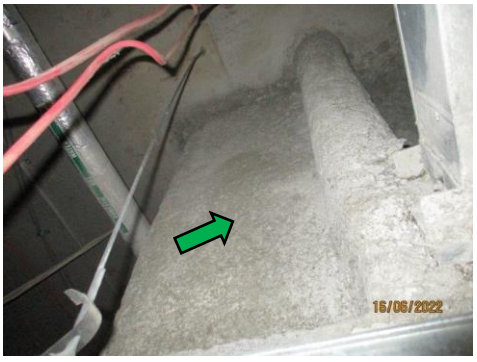
Level 1, G1, adjacent fire door and staff changerooms 1207 &1210, floor coverings – beige vinyl floor covering.

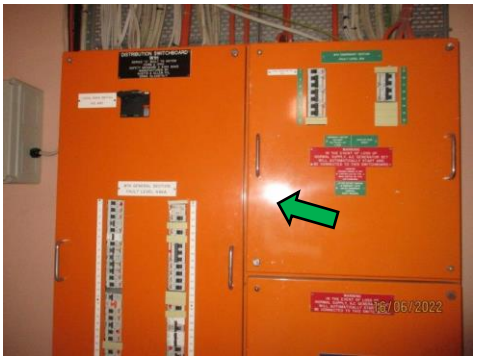
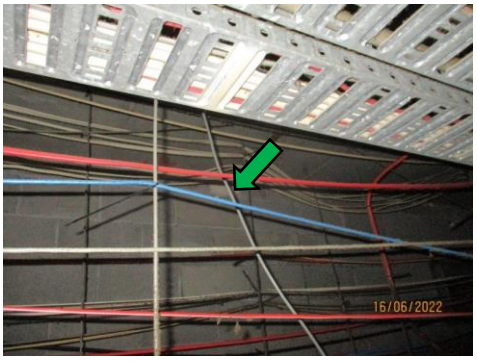
Sample No.: Visual Inspection – Live electrics	
Asb Detected:	Assume No
Location:	Internal

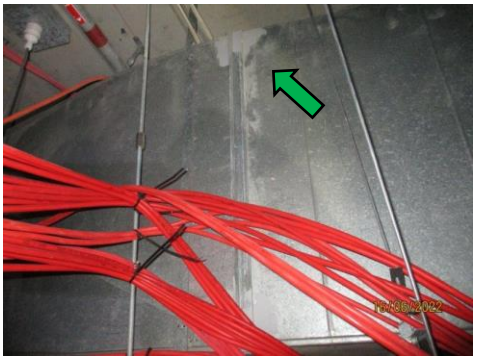
Level 1, G1, Electrical Distribution Board Cupboard (1216) electrical backing board (modern appearance).

Sample No.: PRJ000914-AS037	
Asb Detected:	No
Location:	Internal

Level 1, G1, adjacent toilet 1228, ceiling space, Air Handling Units – duct mastic, grey rubbery mastic.

	**Sample No.: Same as: PRJ000914-AS014** **Asb Detected:** No **Location:** Internal Level 1, Ward H1, floor coverings – grey vinyl floor covering. Typical throughout Ward H1.
	**Sample No.: Same as: PRJ000914-AS012** **Asb Detected:** Assume No **Location:** Internal Level 1, H1, ceiling space – vermiculite within service penetrations. Similar vermiculite observed throughout hospital, around and within service penetrations.
	**Sample No.: Same as: PRJ000914-AS017** **Asb Detected:** Assume No **Location:** Internal Level 1, H1 Ceiling space – sprayed SMF insulation to structure and ductwork. Similar sprayed SMF insulation present to ductwork, beams columns and ceilings throughout hospital.
	**Sample No.: Same as PRJ000914-AS037** **Asb Detected:** No **Location:** Internal Level 1, H1 Ceiling space, Air Handling Units – duct mastic.

	**Sample No.: Visual Inspection – Live electrics** **Asb Detected:** Assume No **Location:** Internal Level 1, H1, Electrical Distribution Board Cupboard electrical backing board (modern appearance).
	**Sample No.: Same as: PRJ000914-AS017** **Asb Detected:** Assume No **Location:** Internal Level 1, Circulation space adjacent H1 Lifts, Ceiling space – sprayed SMF insulation to structure and ductwork. Similar sprayed SMF insulation present to ductwork, beams columns and ceilings throughout hospital.
	**Sample No.: Same as: PRJ000914-AS012** **Asb Detected:** Assume No **Location:** Internal Level 1, Circulation space adjacent H1 Lifts - vermiculite within service penetrations. Similar vermiculite observed throughout hospital, around and within service penetrations.
	**Sample No.: Same as: PRJ000914-AS012** **Asb Detected:** Assume No **Location:** Internal Level 1, Circulation space adjacent G1 Lifts - vermiculite within service penetrations. Similar vermiculite observed throughout hospital, around and within service penetrations.

	**Sample No.: Same as PRJ000914-AS037** **Asb Detected:** No **Location:** Internal Level 1, Circulation space adjacent G1 Lifts, Air Handling Units – duct mastic.
	**Sample No.: Visual Inspection** **Asb Detected:** Assume No **Location:** Internal Level 1, Circulation space adjacent G1 Lifts, Modern brown vinyl floor covering
	**Sample No.: PRJ000914-AS086** **Asb Detected:** No **Location:** Internal Level 1, Internal, Under croft, NW end, gaskets to natural gas valve sets.
	**Sample No: PRJ000914-AS092** **Asb Detected:** No **Location:** Internal Level 1, Ward H1, Entrance corridor, Fire door core Wormald Fire door core (Manufactured 198_) Similar single and double fire doors observed throughout hospital.

Visual Assessment	
Asb Detected:	No
Location:	Internal

Level 1, Ward H1, entrance, modern vinyl floor coverings. Various modern non-asbestos floor coverings observed throughout K1.

Visual Assessment	
Asb Detected:	No
Location:	Internal

Level 1, Ward K1, entrance, modern vinyl floor coverings. Various modern non-asbestos floor coverings observed throughout K1.

Sample No.: Same as: PRJ000914-AS012	
Asb Detected:	No
Location:	Internal

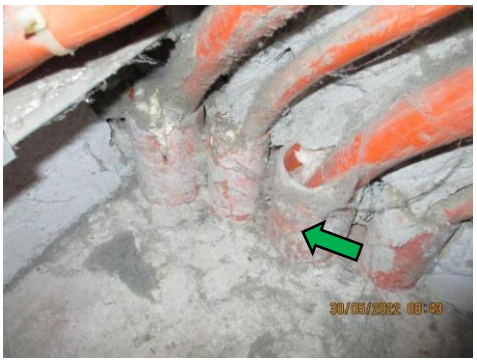
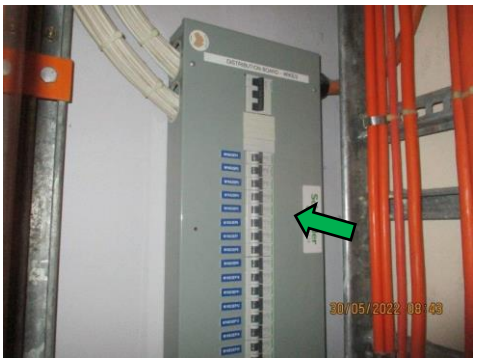
Level 1, Ward K1, ceiling space – vermiculite fire stopping

Similar vermiculite observed throughout hospital, around and within service penetrations.

Visual Assessment	
Asb Detected:	No
Location:	Internal

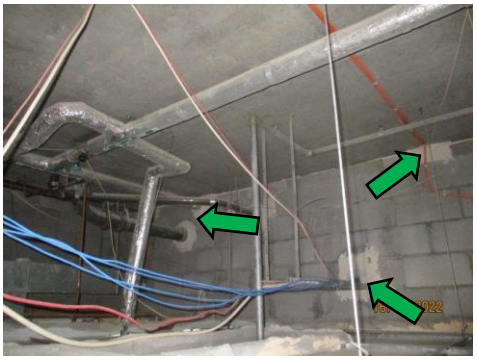
Level 1, Ward K1, windows frames throughout – rubber surrounding glass

Similar windows observed throughout hospital

	**Sample No.: Same as: PRJ000914-AS037** **Asb Detected:** No **Location:** Internal Level 1, Ward K1, ceiling space, Air Handling Units – duct mastic, grey rubbery mastic. Typical throughout K1
	**Sample No.: Same as: PRJ000914-AS005** **Asb Detected:** No **Location:** Internal Level 1, Ward K1, Electrical Cupboard, within floor penetrations – "Kaowool" SMF insulation.
	**Visual Assessment – Live electrical hazard** **Asb Detected:** Assume No **Location:** Internal Level 1, Internal, Ward K1, Electrical Switch cupboard, Modern electrical equipment
	**Visual Assessment – Live electrical hazard** **Asb Detected:** Assume No **Location:** Internal Level 1, Internal, Ward K1, Electrical Switch cupboard, Modern electrical equipment

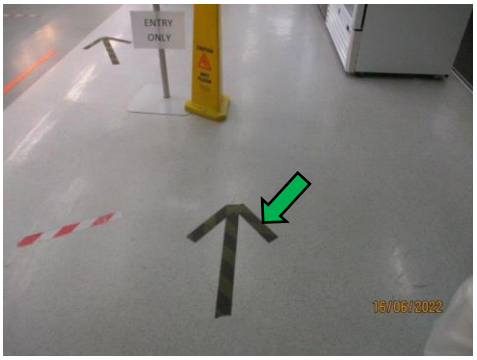
Sample No: PRJ000914-AS093	
Asb Detected:	No
Location:	Internal
Level 1, Internal, Circulation Space, Lift Lobby adjacent Ward H1, Brown vinyl floor covering and amber adhesive	

Sample No.: Same as: PRJ000914-AS037	
Asb Detected:	No
Location:	Internal
Level 1, Male and female changing areas, ceiling space, Air Handling Units – duct mastic, grey rubbery mastic.	



Sample No.: Same as: PRJ000914-AS012	
Asb Detected:	No
Location:	Internal
Level 1, Male and female changing areas, ceiling space – vermiculite fire stopping Similar vermiculite observed throughout hospital, around and within service penetrations.	

Visual assessment	
Asb Detected:	No
Location:	Internal
Level 1, Male and female changing areas, beige vinyl floor covering, modern vinyl floor coverings.	

	**Visual Assessment** **Asb Detected:** No **Location:** Internal Level 1, Cafeteria, modern grey vinyl floor coverings.
	**Sample No.: Same as: PRJ000914-AS037** **Asb Detected:** No **Location:** Internal Level 1, Cafeteria, above ceiling, ductwork mastic, grey rubbery mastic.
	**Visual Assessment – Modern material** **Asb Detected:** No **Location:** Internal Level 1, Nexus, modern floor coverings
	**Visual Assessment – Modern material** **Asb Detected:** No **Location:** Internal Level 1, Nexus plant room, modern air handling units – no mastic on joints.

Visual Assessment – Live Electrics	
Asb Detected:	Assume No
Location:	Internal

Level 1, Nexus plant room, modern electrical equipment

Sample No.: Same as: PRJ000914-AS012	
Asb Detected:	No
Location:	Internal

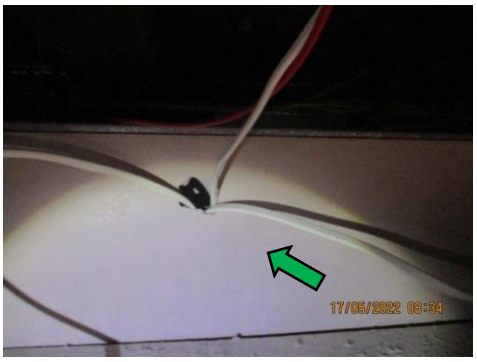
Level 1, Fire Escape Stairwells, sprayed SMF insulation above fire door

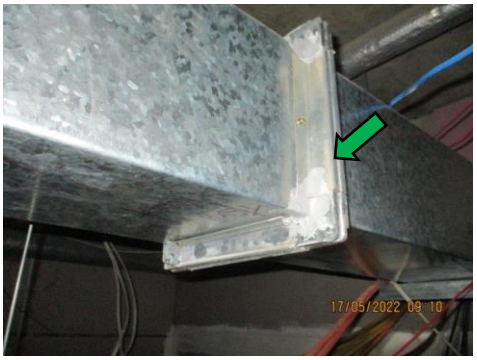
Sample No.: Same as: PRJ000914-AS012	
Asb Detected:	No
Location:	Internal

Level 1, Fire Escape Stairwells, sprayed SMF insulation around pipe penetrations

Level 2 Register

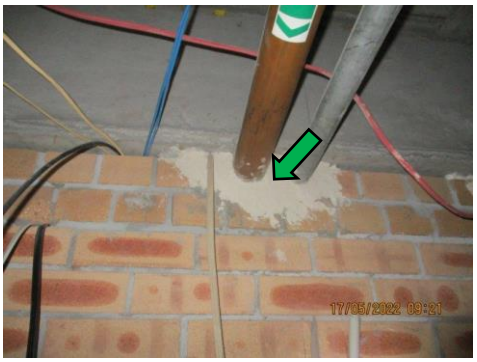
Materials with No Asbestos Detected

	**Sample No.: PRJ000914-AS085** **Asb Detected:** No **Location:** External Level 2, External Emergency Department drop off area, expansion joint in floor, bitumen.
	**Sample No.: PRJ000914-AS008** **Asb Detected:** No **Location:** Internal Level 2, Emergency Department, Room 2073 (Disposal Room) ceiling space, partition walls – fibre cement sheeting
	**Sample No.: Visual inspection (Live electrics)** **Asb Detected:** Assume No **Location:** Internal Level 2, Emergency Department, DB S2B, modern electrical backing boards.
	**Sample No.: PRJ000914-AS009** **Asb Detected:** No **Location:** Internal Level 2, Emergency Department, Room 2100 (Dirty Utility Room), vinyl floor coverings and amber adhesive.



Sample No.: PRJ000914-AS010	
Asb Detected:	No
Location:	Internal

Level 2, Emergency Department, adjacent bed 1 and fire door, ceiling space, air conditioning ductwork, between flanges – mastic, grey rubbery mastic.



Sample No.: PRJ000914-AS011	
Asb Detected:	No
Location:	Internal

Level 2, Emergency Department, Room 2065 (Storeroom 4), ceiling space, penetrations, vermiculite.

Similar vermiculite observed throughout hospital around and within service penetrations.

Sample No.: Same as: PRJ000914-AS005	
Asb Detected:	No
Location:	Internal

Level 2, Emergency Department, Room 2065 (Storeroom 4), ceiling space, between brick walls and concrete slab – "Kaowool" SMF insulation.

Sample No.: PRJ000914-AS084	
Asb Detected:	No
Location:	External

Level 2, Internal, Emergency Department waiting room, wall adjacent toilets

Emergency Department waiting room recently renovated.

Visual Assessment	
Asb Detected:	No
Location:	External

Level 2, Internal, Emergency Department waiting area, modern floor coverings.

Emergency Department waiting room recently renovated.

Same as Sample No.: PRJ000914-AS011	
Asb Detected:	No
Location:	Internal

Level 2, Pathology Department, ceiling space, vermiculite around penetrations.

Similar vermiculite observed throughout hospital around and within service penetrations.

Visual Assessment – Modern Material	
Asb Detected:	No
Location:	Internal

Level 2, Pathology Department, modern vinyl floor coverings

Sample No.: PRJ000914-AS006	
Asb Detected:	No
Location:	Internal

Level 2, Executive Suite, Room 2340 (Storeroom), throughout, beneath carpet tiles – amber adhesive.

Note: Anecdotal evidence from JHH staff suggest that Executive Suite was completely refurbished <10 years ago.

Sample No.: PRJ000914-AS007	
Asb Detected:	No
Location:	Internal

Level 2, Executive Suite, Room 2340 (Storeroom), ceiling space, air conditioning ductwork, between flanges – mastic, grey rubbery mastic.

Sample No.: Same as: PRJ000914-AS003	
Asb Detected:	Assume No
Location:	Internal
Level 2, Executive Suite, Room 2340 (Storeroom), around top of concrete columns and penetrations – sprayed SMF insulation.	

Sample No.: PRJ000914-AS016	
Asb Detected:	No
Location:	Internal
Level 2, Ward H2, Storeroom, adjacent corridor and fire door exit, ceiling space, air conditioning ductwork – mastic, grey rubbery mastic.	

Sample No.: PRJ000914-AS017	
Asb Detected:	No
Location:	Internal
Level 2, Ward H2, Storeroom, adjacent corridor and fire door exit, ceiling space, surrounding penetrations – vermiculite. Similar vermiculite observed throughout hospital around and within service penetrations.	

Similar to Sample No.: PRJ000914-AS014	
Asb Detected:	Assume No
Location:	Internal
Level 2, Ward H2, corridors throughout, mottled grey floor tile and amber adhesive	

Sample No.: PRJ000914-AS018	
Asb Detected:	No
Location:	Internal

Internal, Level 2, Ward H2, Storeroom, corridor, Wormald fire door – Manufactured 198_ according to door tags.

Similar single and double fire doors observed throughout hospital.

Sample No.: PRJ000914-AS019	
Asb Detected:	No
Location:	Internal

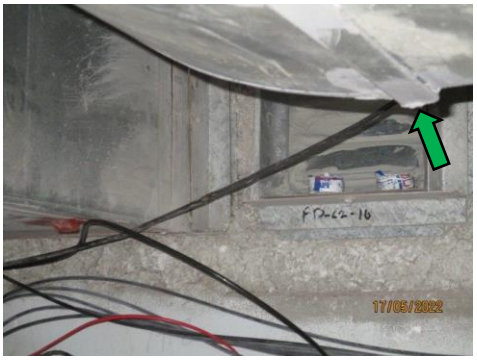
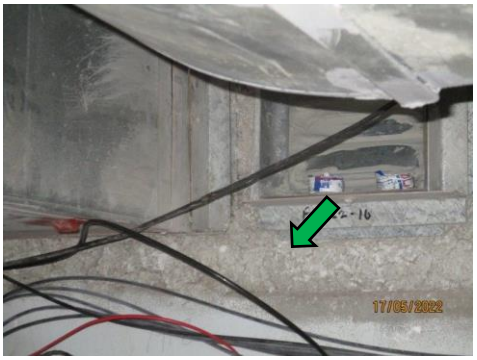
Level 2, Ward H2, Storeroom, adjacent corridor, fire hose reel cupboard, on ground around penetrations, clear mastic.

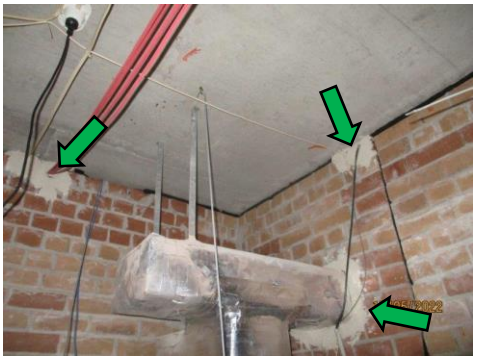
Sample No.: PRJ000914-AS020	
Asb Detected:	No
Location:	Internal

Level 2, Ward H2, Room 2808, (Electrical Distribution Cupboard), within service penetrations – insulation material.

Sample No.: PRJ000914-AS021	
Asb Detected:	No
Location:	Internal

Level 2, Ward H2, Room 2846 (Dirty Laundry/Toilet Utility Room), throughout, floor coverings – mottled grey vinyl floor covering and amber adhesive.

	**Sample No.: Same as: PRJ000914-AS016** **Asb Detected:** Assume No **Location:** Internal Level 2, Pharmacy, ceiling space, air conditioning ductwork – mastic, grey rubbery mastic.
	**Sample No.: Same as: PRJ000914-AS020** **Asb Detected:** Assume No **Location:** Internal Level 2, Pharmacy, ceiling space, within service penetrations – sprayed SMF insulation. Similar sprayed SMF insulation observed throughout hospital around and within service penetrations.
	**Sample No.: Same as: PRJ000914-AS020** **Asb Detected:** Assume No **Location:** Internal Level 2, Pharmacy, Drug Information Room (2662), ceiling space, cable and duct penetrations – sprayed SMF insulation. Similar sprayed SMF insulation observed throughout hospital around and within service penetrations.
	**Sample No.: Same as: PRJ000914-AS016** **Asb Detected:** Assume No **Location:** Internal Level 2, Pharmacy, Drug Information Room (2662), ceiling space, ductwork – mastic, grey rubbery mastic.



Sample No.: Same as: PRJ000914-AS011	
Asb Detected:	Assume No
Location:	Internal

Level 2, Pharmacy, Drug Information Room (2662), ceiling space – cable and duct penetrations, vermiculite.

Similar vermiculite observed throughout hospital around and within service penetrations.

Sample No.: PRJ000914-AS023	
Asb Detected:	No
Location:	Internal

Level 2, Pharmacy, fire hose reel cupboard (2657), throughout, floor coverings – Mottled grey vinyl floor and amber adhesive.

Sample No.: PRJ000914-AS078	
Asb Detected:	No
Location:	External

Level 2, External, Corridor to Nexus, eaves, fibre cement

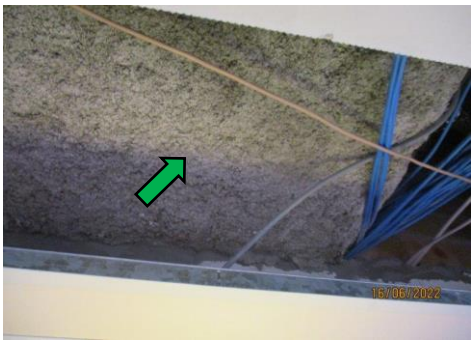
Sample No.: PRJ000914-AS079	
Asb Detected:	No
Location:	External

Level 2, External, Corridor to Nexus, wall sheets, fibre cement

Sample No.: PRJ000914-AS090	
Asb Detected:	No
Location:	Internal
Level 2, Medical Imaging, Short Stay, Fire hose cupboard, beige floor covering and amber adhesive	

Sample No.: PRJ000914-AS091	
Asb Detected:	No
Location:	Internal
Level 2, Medical Imaging, Corridor to Short Stay, Above ceiling, Duct mastic, grey rubbery mastic.	

Sample No: Same as PRJ000914-AS092	
Asb Detected:	No
Location:	Internal
Level 2, Internal, Medical Imaging, Corridor to short stay, Wormald Fire door core (Manufactured 198_)	

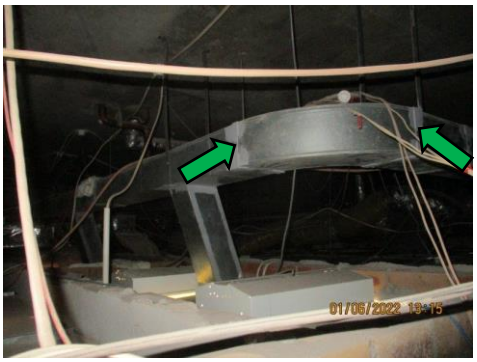


Sample No.: Same as PRJ000914-AS049	
Asb Detected:	No
Location:	Internal
Level 2, Medical Imaging, sprayed SMF insulation to beam and ducting	

Sample No.: Same as: PRJ000914-AS011	
Asb Detected:	No
Location:	Internal
Level 2, Medical Imaging, vermiculite insulation around penetrations.	

Visual Assessment	
Asb Detected:	No
Location:	Internal

Level 2, Medical Imaging, various modern vinyl floor coverings.



Same as Sample No.: PRJ000914-AS091	
Asb Detected:	No
Location:	Internal

Level 2, Medical Imaging, Above ceiling, Duct mastic, grey rubbery mastic.

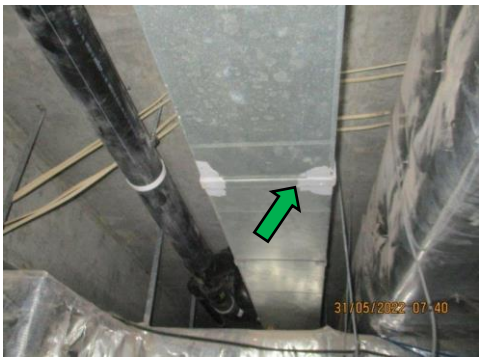
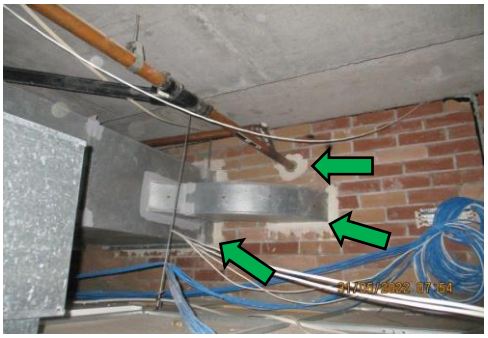
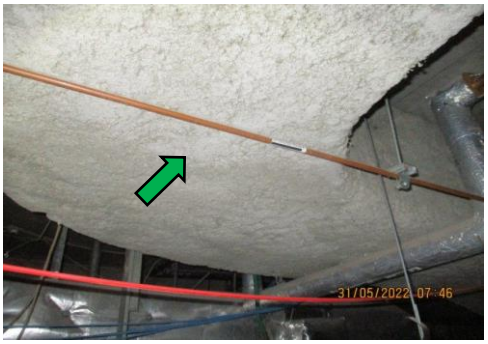
Visual Assessment – Modern equipment.	
Asb Detected:	No
Location:	Internal

Level 2, Medical Imaging, Lift Motor Room, Modern pneumatic lift motor, no brake pads present.

Sample No: Same as PRJ000914-AS092	
Asb Detected:	No
Location:	Internal

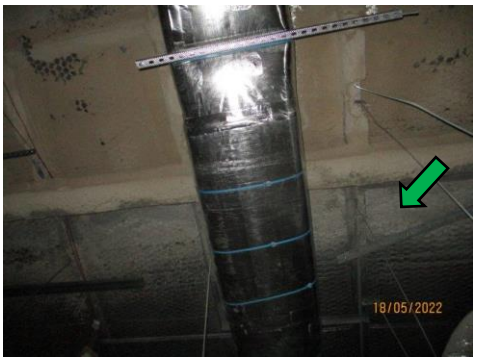
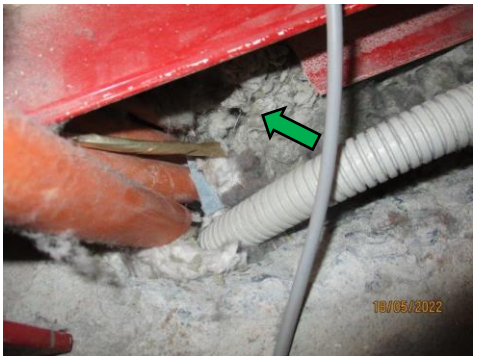
Level 2, Outpatients Department, Wormald Fire door core (Manufactured 198_)

Similar fire doors observed throughout the hospital.

	**Visual assessment** **Asb Detected:** No **Location:** Internal Level 2, Outpatients Department, Modern vinyl floor coverings observed throughout Outpatients Department
	**Same as Sample No.: PRJ000914-AS091** **Asb Detected:** No **Location:** Internal Level 2, Outpatients Department, Above ceiling, Duct mastic, grey rubbery mastic.
	**Sample No.: Same as: PRJ000914-AS011** **Asb Detected:** No **Location:** Internal Level 2, Outpatients Department, vermiculite insulation around penetrations.
	**Sample No.: Same as PRJ000914-AS049** **Asb Detected:** No **Location:** Internal Level 2, Outpatients Department, sprayed SMF insulation to beams and ducting
	**Visual Assessment – Modern material** **Asb Detected:** No **Location:** Internal Level 2, Nexus, modern floor coverings

Level 3

Materials with No Asbestos Detected

	**Sample No.: Visual Inspection**	
	Asb Detected:	Assume No
	Location:	Internal
	Level 3, Neonatal Intensive Care Unit, throughout, floor coverings – modern blue vinyl floor covering.	
	**Sample No.: Same as: PRJ000914-AS018**	
	Asb Detected:	Assume No
	Location:	Internal
	Level 3, Neonatal Intensive Care Unit, throughout, ceiling space – sprayed vermiculite insulation to ceiling beneath sarking.	
	**Sample No.: Same as: PRJ000914-AS016**	
	Asb Detected:	Assume No
	Location:	Internal
	Level 3, Birthing Suite, Department entrance corridor, air conditioning ductwork – mastic, grey rubbery mastic.	
	**Sample No.: Same as: PRJ000914-AS012**	
	Asb Detected:	Assume No
	Location:	Internal
	Level 3, Birthing Suite, corridor adjacent nurse station, ceiling – sprayed SMF insulation within penetrations.	

Sample No.: Visual Inspection – Live electrics	
Asb Detected:	Assume No
Location:	Internal

Level 3, Birthing Suite, Electrical distribution Cupboard (3524) modern electrical backing board.

Sample No.: PRJ000914-AS038	
Asb Detected:	No
Location:	Internal

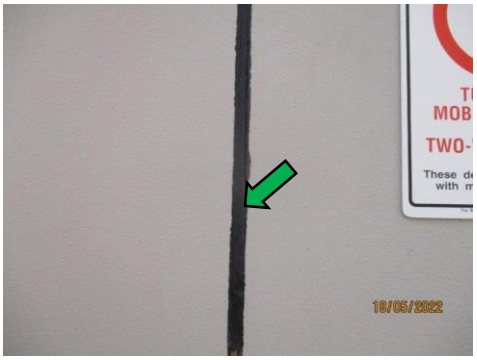
Level 3, Birthing Suite, Lobby adjacent Room 9, duct joints – mastic, grey rubbery mastic.

Sample No.: PRJ000914-AS039	
Asb Detected:	No
Location:	Internal

Level 3, Birthing Suite, fire hose reel cupboard 3519, floor covering – grey vinyl floor covering and clear adhesive.

Sample No.: Visual Inspection – Live electrics	
Asb Detected:	Assume No
Location:	Internal

Level 3, Birthing Suite, Electrical distribution boards, modern appearance.



Sample No.: PRJ000914-AS040	
Asb Detected:	No
Location:	Internal

Level 3, Intensive Care Unit, corridor outside ICU, expansion joints between walls– black construction mastic.

Sample No.: Visual Inspection	
Asb Detected:	Assume No
Location:	Internal

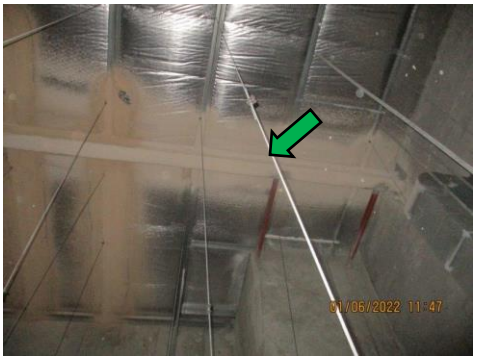
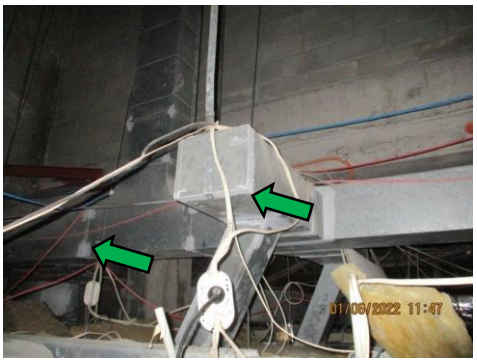
Level 3, Intensive Care Unit, corridor, Electrical Distribution Board Cupboard (3079), electrical backing board (modern).

Sample No.: PRJ000914-AS041	
Asb Detected:	No
Location:	Internal

Level 3, Intensive Care Unit, Communication Cupboard (3079), floor covering, white vinyl floor covering and amber adhesive.

Sample No.: Same as: PRJ000914-AS012	
Asb Detected:	Assume No
Location:	Internal

Level 3, Intensive Care Unit, corridor adjacent retrieval service room, ceiling space, air conditioning ductwork – sprayed SMF insulation.

	**Sample No.: Same as: PRJ000914-AS013** **Asb Detected:** Assume No **Location:** Internal Level 3, Intensive Care Unit, corridor adjacent retrieval service room, ceiling space – vermiculite.
	**Sample No.: PRJ000914-AS042** **Asb Detected:** No **Location:** Internal Level 3, Intensive Care Unit, adjacent ICU high risk area, corridor, ceiling space, structural beams and penetrations – vermiculite.
	**Same as Sample No.: PRJ000914-AS042** **Asb Detected:** No **Location:** Internal Level 3, Research Laboratory, ceiling space, structural beams – vermiculite.
	**Same as Sample No.: PRJ000914-AS038** **Asb Detected:** No **Location:** Internal Level 3, Research Laboratory, above ceiling, duct joints – mastic, grey rubbery mastic. Similar duct mastic observed throughout the hospital.

Sample No.: Same as: PRJ000914-AS012	
Asb Detected:	Assume No
Location:	Internal

Level 3, Research Laboratory, ceiling space, air conditioning ductwork – sprayed SMF insulation.

Visual Observation – Modern Material	
Asb Detected:	Assume No
Location:	Internal

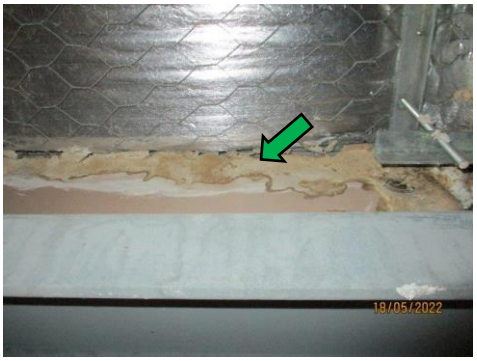
Level 3, Research Laboratory, modern vinyl floor coverings.

Visual Observation – Modern Material	
Asb Detected:	Assume No
Location:	Internal

Level 3, Transplant Department, modern vinyl floor coverings throughout.

Visual Observation – Modern Material	
Asb Detected:	Assume No
Location:	Internal

Level 3, Transplant Department, modern vinyl coverings behind sinks installed as splashbacks.
Observed in similar locations throughout hospital.

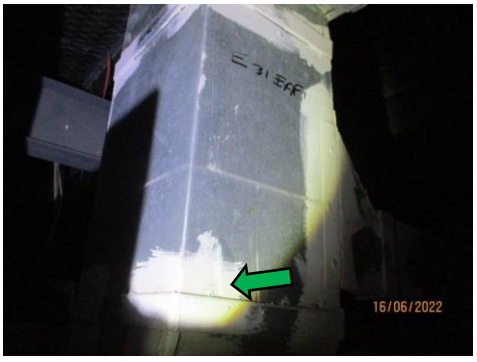
	**Visual Observation – Modern Material** **Asb Detected:** Assume No **Location:** Internal Level 3, Acute General Surgery Unit, modern vinyl floor coverings throughout.
	**Same as Sample No.: PRJ000914-AS044** **Asb Detected:** No **Location:** Internal Level 3, Ward G3, ceiling space – vermiculite to structural beams and within service penetrations.
	**Sample No.: PRJ000914-AS043** **Asb Detected:** No **Location:** Internal Level 3, Ward H3, Garbage/Dirty Linen Room, ceiling space, flanges to air conditioning ductwork – mastic, grey rubbery mastic.
	**Sample No.: PRJ000914-AS044** **Asb Detected:** No **Location:** Internal Level 3, Ward H3, corridor adjacent fire doors and Garbage/Dirty Linen Room, ceiling space – vermiculite within cable penetrations.

Sample No.: Visual Inspection / Live Electrics	
Asb Detected:	Assume No
Location:	Internal

Level 3, Ward H3, Electrical Distribution Board Cupboard (3800) electrical backing boards (modern).

Sample No.: Visual Inspection / Live Electrics	
Asb Detected:	Assume No
Location:	Internal

Level 3, Ward G3, Electrical Distribution Board Cupboard electrical backing boards (modern).



Same as Sample No.: PRJ000914-AS043	
Asb Detected:	No
Location:	Internal

Level 3, Ward K3, ceiling space, air conditioning ductwork – mastic, grey rubbery mastic.

Sample No.: Modern Appearance	
Asb Detected:	No
Location:	Internal

Level 3, Ward K3, grey vinyl floor covering

Same as Sample No.: PRJ000914-AS043	
Asb Detected:	No
Location:	Internal

Level 3, Circulation space adjacent Ward G3 lifts, ceiling space, air conditioning ductwork – mastic, grey rubbery mastic.

Visual Assessment – Modern Appearance	
Asb Detected:	No
Location:	Internal

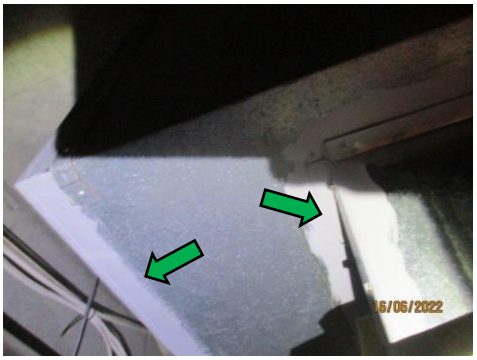
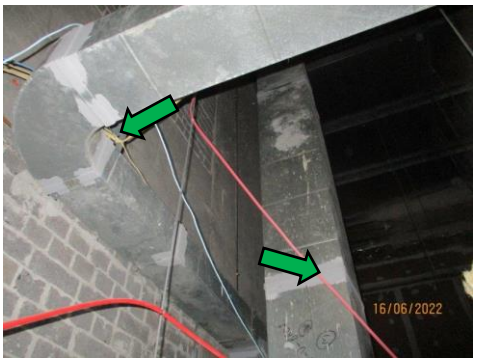
Level 3, Circulation space adjacent Ward G3 lifts, grey vinyl floor covering

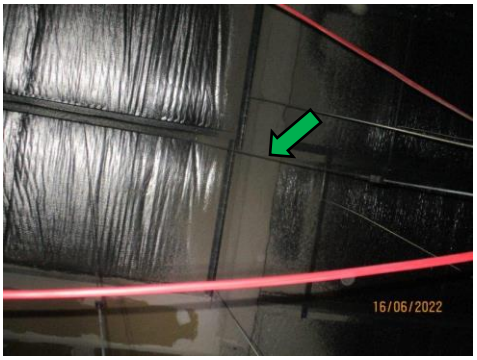
Same as Sample No.: PRJ000914-AS043	
Asb Detected:	No
Location:	Internal

Level 3, Above AGSU, Admin, Transplant and Research Department – Accessed via gantry walkway, air conditioning ductwork – mastic, grey rubbery mastic.

Same as Sample No.: PRJ000914-AS042	
Asb Detected:	No
Location:	Internal

Level 3, Above AGSU, Admin, Transplant and Research Department – Accessed via gantry walkway, ceiling space, structural beams – vermiculite.

	**Same as Sample No.: PRJ000914-AS043** **Asb Detected:** No **Location:** Internal Level 3, Coronary Care Unit, air conditioning ductwork – mastic, grey rubbery mastic.
	**Sample No.: Modern Appearance** **Asb Detected:** No **Location:** Internal Level 3, Coronary Care Unit, grey vinyl floor covering
	**Visual Observation – Modern Material** **Asb Detected:** Assume No **Location:** Internal Level 3, Cardiovascular Department, modern vinyl floor coverings throughout.
	**Same as Sample No.: PRJ000914-AS043** **Asb Detected:** No **Location:** Internal Level 3, Cardiovascular Department, air conditioning ductwork – mastic, grey rubbery mastic.



Same as Sample No.: PRJ000914-AS042	
Asb Detected:	No
Location:	Internal

Level 3, Maternity, Gynaecology and Endocrinology Department, throughout, ceiling space, structural beams – vermiculite.

Level 4

Materials with No Asbestos Detected

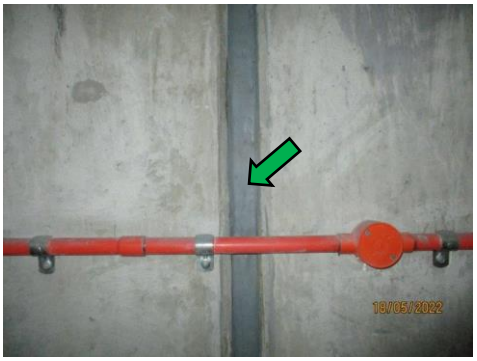
Sample No.: PRJ000914-AS026	
Asb Detected:	No
Location:	Internal

Level 4, Plant Room, west end, fire door (manufactured 198_) – fire door core.

Similar fire doors and modern non asbestos replacements observed throughout the hospital.

Sample No.: PRJ000914-AS027	
Asb Detected:	No
Location:	Internal

Level 4, Plant Room, soil vent pipe penetration, on ground – mastic, clear rubbery mastic.



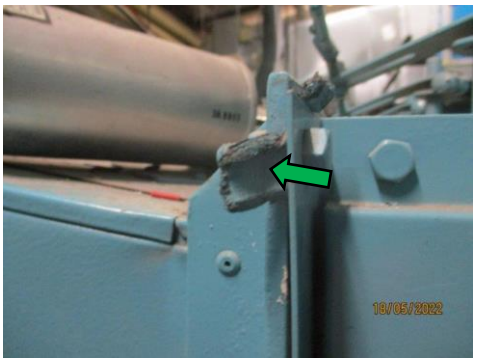
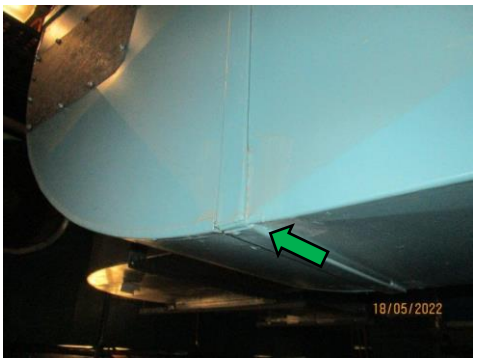
Sample No.: PRJ000914-AS028	
Asb Detected:	No
Location:	Internal

Level 4, Plant Room, adjacent soil vent pipe, between expansion joint – construction mastic, grey rubbery mastic.

Sample No.: PRJ000914-AS029	
Asb Detected:	No
Location:	Internal

Level 4, Plant Room, throughout, ceiling – vermiculite.

Similar vermiculite observed throughout hospital around and within service penetrations and to structural elements such as brackets.

	**Same as Sample No.: PRJ000914-AS029** **Asb Detected:** No **Location:** Internal Level 4, Plant Room, throughout, ceiling, to structural beams – vermiculite. Similar vermiculite observed throughout hospital
	**Sample No.: Visual Inspection** **Asb Detected:** No **Location:** Internal Level 4, Plant Room, throughout Air Handling Unit, rubber seals.
	**Sample No.: PRJ000914-AS030** **Asb Detected:** No **Location:** Internal Level 4, Plant Room, Air Handling Units, surrounding pipe penetrations entering AHU – mastic, grey rubbery mastic.
	**Sample No.: PRJ000914-AS031** **Asb Detected:** No **Location:** Internal Level 4, Plant Room, throughout, Air handling Units, between flanges – blue mastic, grey rubbery mastic.

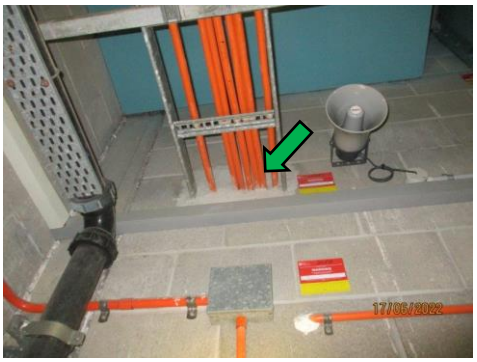
Sample No.: PRJ000914-AS032	
Asb Detected:	No
Location:	Internal
Level 4, Plant Room, throughout, Air handling Units, between flanges – blue mastic, grey rubbery mastic.	

Visual Assessment – Live Electrics	
Asb Detected:	No
Location:	Internal
Level 4, Plant Room, Modern electrical equipment	

Sample No.: PRJ000914-AS033	
Asb Detected:	No
Location:	Internal
Level 4, Plant Room, behind access panel, adjacent Air Handling Units 28 & 29 – sprayed insulation debris.	

Sample No.: PRJ000914-AS034	
Asb Detected:	No
Location:	Internal
Level 4, Plant Room, west end, adjacent Air Handling Unit and hot water heater pipework, flanges – redundant black gasket.	

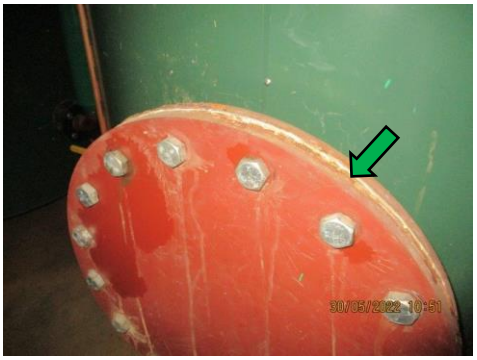
Sample No.: PRJ000914-AS035	
Asb Detected:	No
Location:	Internal
Level 4, Plant Room, west end, throughout, ceiling – sprayed vermiculite insulation to roof structure.	

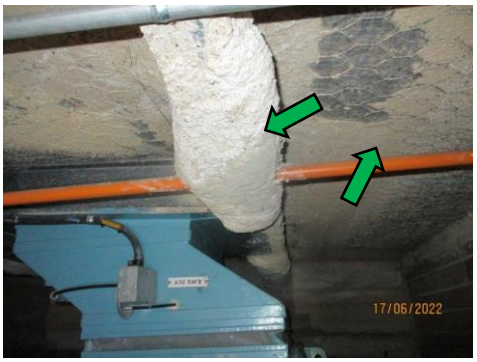
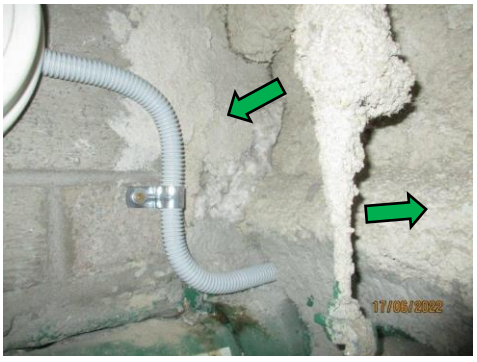
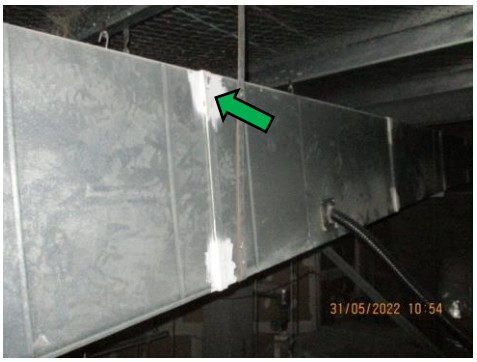


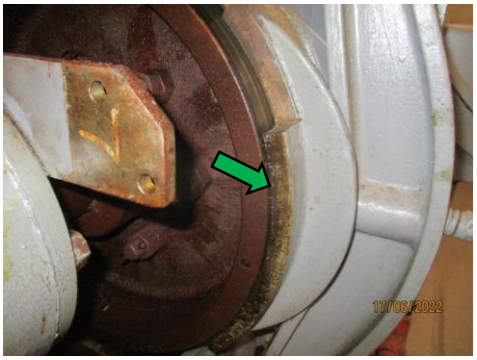
Same as Sample No.: PRJ000914-AS035	
Asb Detected:	No
Location:	Internal
Level 4, Plant Room, throughout, vermiculite insulation within various service penetrations.	

Sample No.: Same as: PRJ000914-AS012	
Asb Detected:	Assume No
Location:	Internal
Level 4, Plant Room, various locations surrounding ceiling lightwells – sprayed SMF insulation.	

Sample No.: PRJ000914-AS082	
Asb Detected:	No
Location:	Internal
Level 4, Internal, Plant Room, gaskets to end of hot water pipework	

	**Sample No.: PRJ000914-AS083** **Asb Detected:** No **Location:** Internal Level 4, Internal, Plant Room, large gaskets to calorifiers
	**Visual Assessment** **Asb Detected:** No **Location:** Internal Level 4, Internal, Plant Rooms, polystyrene pipe insulation to chilled water pipes Typical within chilled water service line
	**Visual Assessment** **Asb Detected:** No **Location:** Internal Level 4, Internal, Plant Rooms, polystyrene pipe insulation to chilled water pipes Typical within chilled water service line
	**Visual Assessment** **Asb Detected:** No **Location:** Internal Level 4, Internal, Plant Rooms, rubber gaskets to chilled water valve set adjacent AHU

	**Same as Sample No.: PRJ000914-AS043** **Asb Detected:** No **Location:** Internal Level 4, Internal, Plant Rooms, air conditioning ductwork – mastic.
	**Same as Sample No.: PRJ000914-AS035** **Asb Detected:** No **Location:** Internal Level 4, Internal, Small Plant Room adjacent roof access, sprayed vermiculite insulation to roof structure.
	**Same as Sample No.: PRJ000914-AS035** **Asb Detected:** No **Location:** Internal Level 4, Internal, Small Plant Room adjacent roof access, sprayed vermiculite insulation to roof structure and within penetrations.
	**Sample No.: PRJ000914-AS087** **Asb Detected:** No **Location:** Internal Level 4, Internal, Roof space above Level 3 theatres, mastic to ductwork



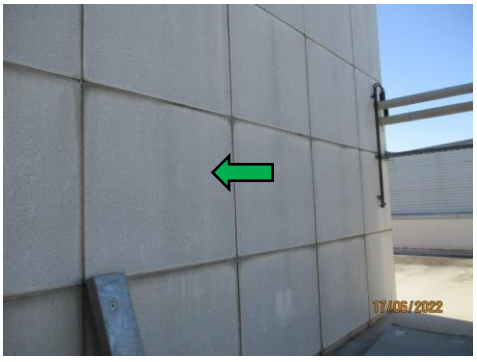
Sample No.: PRJ000914-AS094	
Asb Detected:	No
Location:	Internal

Level 4, Internal, Plant Rooms, Lift Motor Room 5, lift motor 9, brake pads.

Brake pads present in Lift Motor Rooms 1 -5, Lifts Motors 1-10

Sample No.: PRJ000914-AS0100	
Asb Detected:	No
Location:	Internal

Level 4, Internal, Roof access stairwell, loose panels, Compressed cement sheet



Sample No.: PRJ000914-AS095	
Asb Detected:	No
Location:	Internal

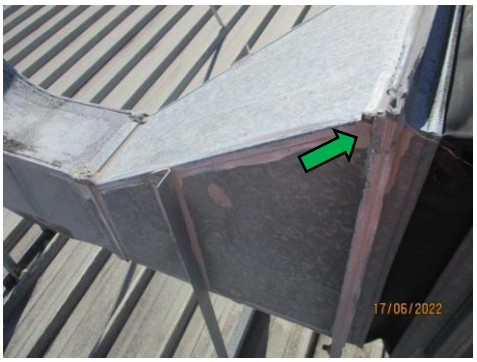
Level 4, External, Roof Plant Room, walls of plant room, compressed cement sheet

Same as Sample No.: PRJ000914-AS095	
Asb Detected:	No
Location:	Internal

Level 4, External, Roof, walls of perimeter walkway, compressed cement sheet

Sample No.: PRJ000914-AS096	
Asb Detected:	No
Location:	Internal

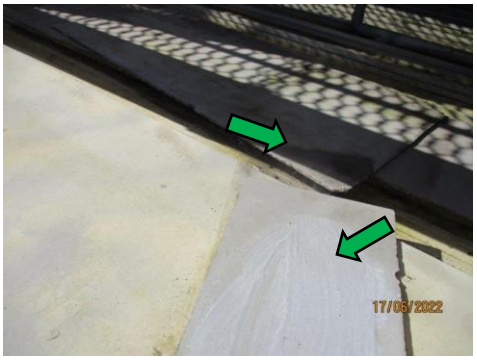
Level 4, External, Roof, panels beneath roof sheets, compressed cement sheet



Sample No.: PRJ000914-AS097	
Asb Detected:	No
Location:	Internal

Level 4, External, Roof, mastic to AHU ducts and vents, mastic

Typical across roof to plant and ducting.



Sample No.: PRJ000914-AS098	
Asb Detected:	No
Location:	Internal

Level 4, External, Roof, loose panels beneath plant, compressed cement sheet.

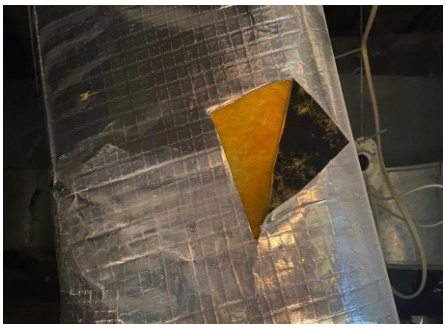
Sample No.: PRJ000914-AS099	
Asb Detected:	No
Location:	Internal

Level 4, External, Roof, waterproof membrane, bitumen

Typical across roof areas

Synthetic Mineral Fibres (SMF)

Level 0 Register

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Mortuary, ceiling space – flexible ductwork.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Mortuary, ceiling space – air conditioning ductwork insulation.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Substation 2, “Kaowool” between walls	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Back of House, Engineering department, “Kaowool” between walls and ceiling slab	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Back of House, Engineering department, ductwork insulation	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Back of House, Engineering department, flexible ductwork insulation	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Plant Room, SMF pipe insulation to flue pipes within metal cladding.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Plant Room, Kaowool behind mastic – between walls and ceiling slab.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Plant Room, woven wrap around pipework	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Plant Room, foil lined insulation to boiler and pipes	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Plant Room, SMF insulation beneath aluminium cladding to pipework	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Plant Room, Kaowool within various penetrations	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Plant Room, Kaowool around electrical cables	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Plant r Room oom, SMF insulation to Bunderus Boilers	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Compressor Room, SMF insulation lining AC ducts Presumed to be present within ducts throughout hospital.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Fire escape, SMF and Kaowool and blue SMF fire pillows within penetrations	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Fire escape, SMF pipe insulation	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Room 0055, above ceiling SMF blanket insulation	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Room 0055, above ceiling flexi duct insulation	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Room 0055, above ceiling, pipe insulation	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Room 0055, above ceiling, SMF sprayed insulation to ceiling.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Circulation Spaces/corridors, above ceiling, SMF ductwork insulation.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Circulation Spaces/corridors, above ceiling, SMF flexi duct insulation.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Circulation Spaces/corridors, above ceiling, SMF pipe insulation.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 0, Plant room above Mortuary, Kaowool and vermiculite within penetrations.	

Visual Inspection	
SMF Identified:	Yes
Location:	Internal
Level 0, Plant Room above Mortuary, SMF insulation around flue pipes	

Synthetic Mineral Fibres (SMF)

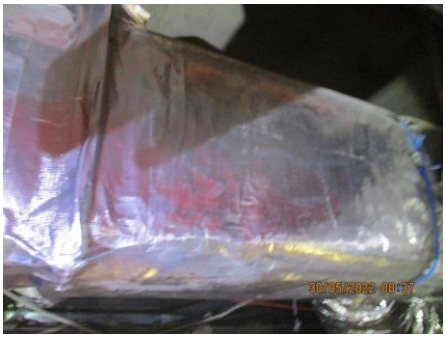
Level 1 Register

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward G1, throughout, ceiling space – air conditioning ductwork.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward G1, throughout, ceiling space – pipework insulation.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward G1, throughout, ceiling space – flexible ductwork.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward H1, ceiling space – pipe insulation. Typical throughout Ward H1.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward H1, ceiling space – SMF "Kaowool" insulation between top of walls and concrete slab. Typical throughout Ward H1.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward H1, ceiling space – Ductwork insulation. Typical throughout Ward H1.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward H1, ceiling space – Flexible ductwork insulation. Typical throughout Ward H1.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Circulation Spaces, adjacent H1 Lifts, ceiling space – Flexible ductwork insulation. Typical throughout Circulation Spaces.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Circulation Spaces, adjacent H1 Lifts, ceiling space – ductwork insulation. Typical throughout Circulation Spaces.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Circulation Spaces, adjacent H1 Lifts, ceiling space – SMF "Kaowool" insulation between top of walls and concrete slab and around duct penetrations. Typical throughout Circulation Spaces.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Circulation Spaces, adjacent K1 Lifts, ceiling space – SMF "Kaowool" insulation between top of walls and concrete slab and around duct penetrations. Typical throughout Circulation Spaces.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Circulation Spaces, adjacent K1 Lifts, ceiling space – ceiling space – Flexible ductwork insulation. Typical throughout Circulation Spaces.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Kitchen, ceiling space – flexible ductwork insulation. Typical throughout Kitchen.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Kitchen, ceiling space – pipework insulation. Typical throughout Kitchen.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Kitchen, ceiling space – air conditioning ductwork insulation. Typical throughout Kitchen.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Kitchen, Dry Storeroom (1041) ceiling space – "Kaowool" between blockwork and concrete slab. Typical throughout Kitchen.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Kitchen, Dry Storeroom (1041) ceiling space – flexible ductwork insulation. Typical throughout Kitchen.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Kitchen, Dry Storeroom (1041) ceiling space – pipework insulation. Typical throughout Kitchen.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward K1 ceiling space – pipework insulation. Typical throughout K1.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward K1 ceiling space – Sprayed SMF insulation to ducts and structural elements. Typical throughout K1.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward K1, SMF "Kaowool" insulation between top of walls and concrete slab. Also present as debris on surfaces beneath. Typical throughout K1.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward K1 ceiling space – ductwork insulation. Typical throughout K1.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward K1 ceiling space – flexible ductwork insulation. Typical throughout K1.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Ward K1 ceiling space – SMF batts between partition walls. Typical throughout K1.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Nexus ceiling space – pipework insulation. Typical throughout Nexus.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Nexus ceiling space – ductwork insulation. Typical throughout Nexus.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Nexus ceiling space – flexible ductwork insulation. Typical throughout Nexus.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Nexus ceiling space – SMF batts on top of ceiling tiles. Typical throughout Nexus.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Male and Female Staff Changing Areas, ceiling space – SMF ductwork insulation. Typical throughout Changing Areas.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Male and Female Staff Changing Areas, ceiling space – SMF flexible ductwork insulation. Typical throughout Changing Areas.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Male and Female Staff Changing Areas, ceiling space – pipe insulation. Typical throughout Changing Areas.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Male and Female Staff Changing Areas, ceiling space SMF “Kaowool” insulation between top of walls and concrete slab. Typical throughout Changing Areas.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Cafeteria, ceiling space ceiling space – pipe insulation. Typical throughout Cafeteria.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 1, Cafeteria, ceiling space ceiling space – flexible duct insulation. Typical throughout Cafeteria.	

Visual Inspection	
SMF Identified:	Yes
Location:	Internal

Level 1, Cafeteria, ceiling space ceiling space –duct insulation. Typical throughout Cafeteria.

Synthetic Mineral Fibres (SMF)

Level 2 Register

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	External
	Level 2, Main Entrance, above metal ceiling – pipe insulation.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	External
	Level 2, Main Entrance, above metal ceiling – SMF batt insulation.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Main Entrance ceiling space – flexible ductwork insulation. Typical throughout Main entrance.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Main Entrance ceiling space –ductwork insulation. Typical throughout Main entrance.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Main Entrance ceiling space –SMF batt insulation. Typical throughout Main entrance.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Emergency Department Waiting Area, ceiling space – flexible ductwork insulation. Typical throughout Emergency Waiting Area.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Emergency Department Waiting Area, ceiling space – ductwork insulation. Typical throughout Emergency Waiting Area.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Emergency Department Waiting Area, ceiling space – pipe insulation. Typical throughout Emergency Waiting Area.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Emergency Department, north-west end, Room 2073 (Disposal Room) ceiling space – air conditioning ductwork insulation. Typical throughout Emergency Department.	

Visual Inspection	
SMF Identified:	Yes
Location:	Internal

Level 2, Emergency Department, SMF "Kaowool" insulation packing between walls.

Typical throughout Emergency Department.

Visual Inspection	
SMF Identified:	Yes
Location:	Internal

Level 2, Emergency Department, SMF "Kaowool" insulation between top of walls and concrete slab.

Typical throughout Emergency Department.

Visual Inspection	
SMF Identified:	Assume Yes
Location:	Internal

Level 2, Emergency Department, ceiling space – flexible ductwork insulation.

Typical throughout Emergency Department.

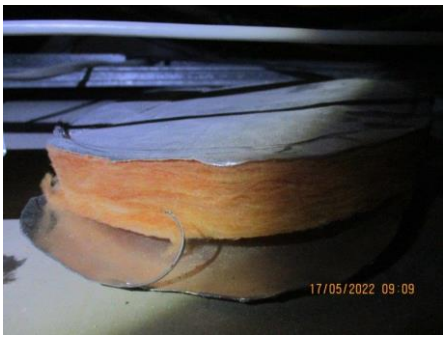
Visual Inspection	
SMF Identified:	Assume Yes
Location:	Internal

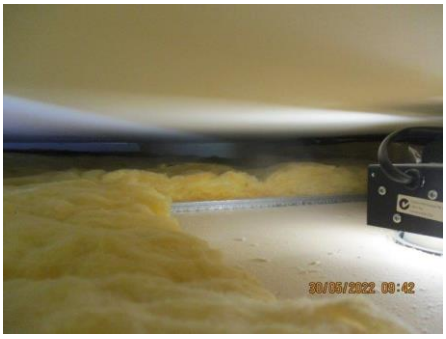
Level 2, Emergency Department, ceiling space – pipework insulation.

Typical throughout Emergency Department.

Visual Inspection	
SMF Identified:	Yes
Location:	Internal

Level 2, Emergency Department, DB S2B, penetrations – SMF insulation.

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Emergency Department, ceiling space hatch adjacent bed 4 – insulation batts within wall cavities. Typical throughout Emergency Department.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Emergency Department, ceiling space hatch adjacent bed 1 and fire door – orange SMF inside Air Conditioning Ductwork – cut out section provides visual confirmation. Typical throughout Emergency Department.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Outpatients Department, ceiling space, SMF ductwork insulation. Typical throughout Outpatients Department.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Outpatients Department, ceiling space, SMF flexible ductwork insulation. Typical throughout Outpatients Department.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Outpatients Department, ceiling space, SMF pipework insulation. Typical throughout Outpatients Department.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Pathology Department, ceiling space, SMF flexible ductwork insulation.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Nexus ceiling space – flexible ductwork insulation. Typical throughout Nexus.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Nexus ceiling space – SMF batts on top of ceiling tiles. Typical throughout Nexus.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Executive Suite, Room 2340 (Storeroom) throughout, ceiling space – pipework insulation. Typical throughout Executive Suite	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Executive Suite, Room 2340 (Storeroom) throughout, ceiling space – flexible ductwork insulation. Typical throughout Executive Suite	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Executive Suite, Room 2340 (Storeroom) throughout, ceiling space – air conditioning ductwork insulation. Typical throughout Executive Suite	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Executive Suite, Office 2360A, ceiling space – blue insulation batts.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Central Sterilisation Department, throughout, ceiling space – pipework insulation. Typical throughout Central Sterilisation Department.	
	**Visual Inspection**	
	SMF Identified:	Assume Yes
	Location:	Internal
	Level 2, Central Sterilisation Department, throughout, ceiling space – ductwork insulation. Typical throughout Central Sterilisation Department.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Central Sterilisation Department, throughout, ceiling space – white “Kaowool” insulation between blockwork/slab. Typical throughout Central Sterilisation Department.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Central Sterilisation Department, throughout, ceiling space – flexible duct insulation Typical throughout Central Sterilisation Department.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Central Sterilisation Department, throughout, ceiling space – "Kaowool" insulation within various penetrations. Typical throughout Central Sterilisation Department.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Ward H2, Storeroom adjacent corridor and fire door exit, ceiling space – pipework insulation. Typical throughout Ward H2.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Ward H2, Storeroom adjacent corridor and fire door exit, ceiling space – "Kaowool" between blockwork and concrete slab. Typical throughout Ward H2.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Ward H2, corridor adjacent enquires desk – flexible ductwork insulation. Typical throughout Ward H2.	

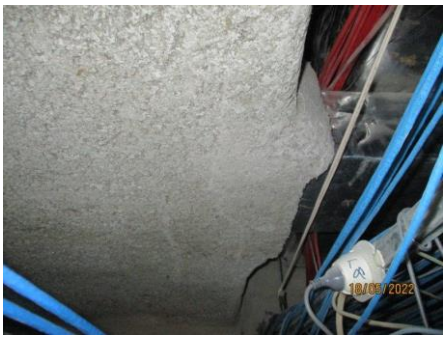
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Ward H2, corridor adjacent enquires desk – air conditioning ductwork insulation. Typical throughout Ward H2.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Ward H2, corridor adjacent enquires desk – pipework insulation. Typical throughout Ward H2.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Pharmacy, throughout, ceiling space – flexible ductwork insulation. Typical throughout Pharmacy.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Pharmacy, throughout, ceiling space – pipework insulation. Typical throughout Pharmacy.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Pharmacy, throughout, Drug Information Room (2662) ceiling space – flexible ductwork insulation. Typical throughout Pharmacy.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Pharmacy, throughout, Drug Information Room (2662) ceiling space – air conditioning ductwork insulation. Typical throughout Pharmacy.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Medical Imaging ceiling space – air conditioning ductwork insulation. Typical throughout Medical Imaging.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Medical Imaging ceiling space – flexible air conditioning ductwork insulation. Typical throughout Medical Imaging.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Medical Imaging ceiling space – pipe insulation. Typical throughout Medical Imaging.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 2, Medical Imaging ceiling space – "Kaowool" between blockwork and concrete slab and within penetrations. Typical throughout Medical Imaging.	

Synthetic Mineral Fibres (SMF)

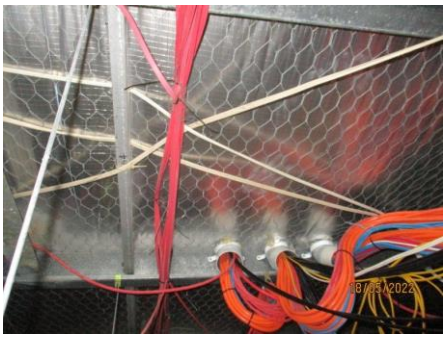
Level 3 Register

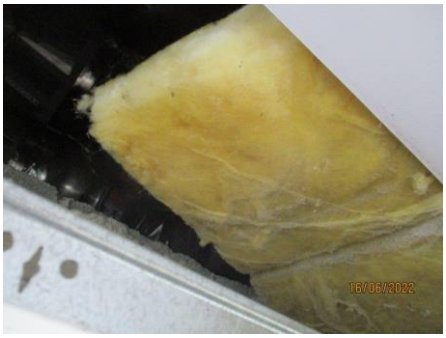
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Neonatal Intensive Care Unit, adjacent Clean Utility Room (3646) ceiling space – flexible ductwork insulation. Typical throughout NICU.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Neonatal Intensive Care Unit, adjacent Clean Utility Room (3646) ceiling space – air conditioning ductwork insulation. Typical throughout NICU.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Neonatal Intensive Care Unit, adjacent Clean Utility Room (3646) ceiling space – yellow insulation batts Typical throughout NICU.	
	**Visual Inspection**	
	SMF Identified:	Assume Yes
	Location:	Internal
	Level 3, Neonatal Intensive Care Unit, adjacent Clean Utility Room (3646) ceiling space – sarking insulation. Typical throughout NICU.	

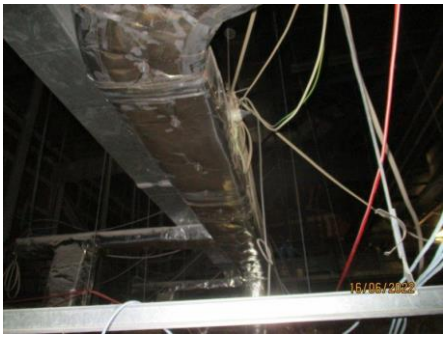
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Neonatal Intensive Care Unit, adjacent Clean Utility Room (3646) ceiling space – pillow insulation within electrical penetrations.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Birthing Suite, entrance corridor, ceiling space – SMF insulation batts. Typical throughout Birthing Suite.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Birthing Suite, entrance corridor, ceiling space – air conditioning ductwork insulation. Typical throughout Birthing Suite.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Birthing Suite, entrance corridor, ceiling space – flexible ductwork insulation. Typical throughout Birthing Suite.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Birthing Suite, nurses' station, ceiling space – sprayed SMF insulation to beams and ductwork. Typical throughout Birthing Suite.	

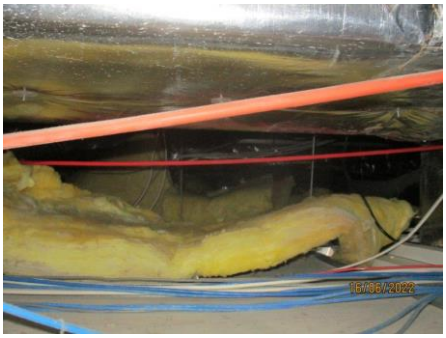
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Birthing Suite, corridor adjacent nurses' station, ceiling space – SMF insulation batts.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Birthing Suite, corridor adjacent nurses' station, ceiling space – air conditioning ductwork.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Birthing Suite, corridor adjacent nurses' station, ceiling space – pipework insulation.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Birthing suite, Communication Cupboard, electrical penetration in floor – "Kaowool". Typical application of "Kaowool" within hospital.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Birthing Suite, Communication Cupboard, penetration – SMF pillow insulation and expanding foam.	

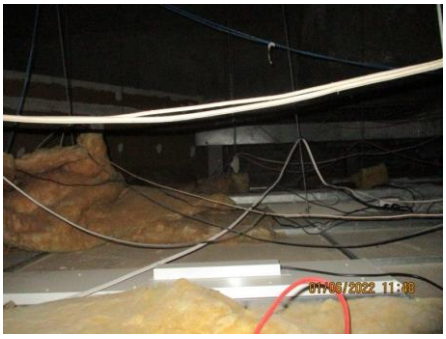
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Intensive Care Unit, waiting area, throughout, ceiling space – sarking beneath roof.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Intensive Care Unit, waiting area, throughout, ceiling space – air conditioning ductwork.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Intensive Care Unit, corridor adjacent Boardroom, ceiling space – insulation batts to walls.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Paediatric Intensive Care Unit, throughout, ceiling space – insulation batts	
	**Visual Inspection**	
	SMF Identified:	Assume Yes
	Location:	Internal
	Level 3, Paediatric Intensive Care Unit, throughout, ceiling space – flexible ductwork.	

	**Visual Inspection**	
	SMF Identified:	Assume Yes
	Location:	Internal
	Level 3, Ward H3, electrical distribution board cupboard – "Kaowool".	
	**Visual Inspection**	
	SMF Identified:	Assume Yes
	Location:	Internal
	Level 3, Ward H3, electrical distribution board cupboard – pillow insulation.	
	**Visual Inspection**	
	SMF Identified:	Assume Yes
	Location:	Internal
	Level 3, Ward H3, corridor, throughout, ceiling space – insulation batts.	
	**Visual Inspection**	
	SMF Identified:	Assume Yes
	Location:	Internal
	Level 3, Ward H3, corridor, throughout, ceiling space – sarking insulation.	
	**Visual Inspection**	
	SMF Identified:	Assume Yes
	Location:	Internal
	Level 3, Ward G3, throughout, ceiling space – sarking insulation. Typical throughout Ward G3.	

	**Visual Inspection**	
	SMF Identified:	Assume Yes
	Location:	Internal
	Level 3, Ward G3, throughout, ceiling space – Yellow SMF Batt insulation. Typical throughout Ward G3.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Ward G3, throughout, space – "Kaowool" between blockwork and concrete slab and within penetrations. Typical throughout Ward G3.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Ward G3, throughout, space – ductwork insulation. Typical throughout Ward G3.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Coronary Care Unit, throughout, space – ductwork insulation. Typical throughout Coronary Care Unit.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Coronary Care Unit, throughout, space flexible – ductwork insulation. Typical throughout Coronary Care Unit.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Cardiology Department, throughout, space – ductwork insulation. Typical throughout Cardiology Department.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Cardiology Department, throughout, space – Yellow SMF Batt insulation. Typical throughout Cardiology Department.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Cardiology Department, throughout, space – white "Kaowool" insulation between block walls and concrete slab. Also present within penetrations. Typical throughout Cardiology Department.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Maternity, Gynaecology and Endocrinology Department, throughout, space – white "Kaowool" insulation between block walls and concrete slab. Also present within penetrations. Typical throughout Maternity, Gynaecology and Endocrinology Department,	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Maternity, Gynaecology and Endocrinology Department, throughout, space – flexible duct insulation. Typical throughout Maternity, Gynaecology and Endocrinology Department,	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Maternity, Gynaecology and Endocrinology Department, throughout, space – duct insulation. Typical throughout Maternity, Gynaecology and Endocrinology Department,	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Maternity, Gynaecology and Endocrinology Department, throughout, space – yellow SMF batt insulation. Typical throughout Maternity, Gynaecology and Endocrinology Department,	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Maternity, Gynaecology and Endocrinology Department, throughout, space – sarking insulation. Typical throughout Maternity, Gynaecology and Endocrinology Department,	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Circulation Areas, Ward K3 adjacent lifts, throughout, ceiling space – flexible duct insulation. Typical throughout Circulation Areas.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Circulation Areas, Ward K3 adjacent lifts, ceiling space, white “Kaowool” insulation between block walls and concrete slab. Also present within penetrations. Typical throughout Circulation Areas.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Circulation Areas, Ward K3 adjacent lifts, blue insulation pillows within floor and ceiling penetrations. Typical throughout Circulation Areas.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Research Laboratory, ceiling space, SMF flexible ductwork insulation. Typical throughout Research Laboratory.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Research Laboratory, ceiling space, SMF ductwork insulation. Typical throughout Research Laboratory.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Research Laboratory, ceiling space, SMF sarking insulation. Typical throughout Research Laboratory.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Research Laboratory, ceiling space, SMF batt insulation on top of ceiling tiles. Typical throughout Research Laboratory.	

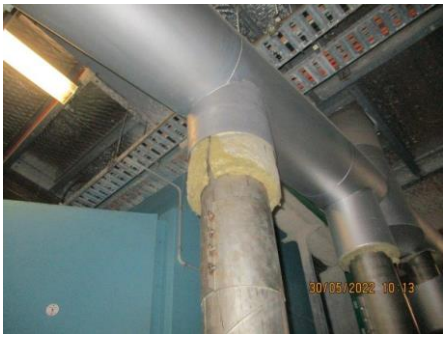
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Research Laboratory, ceiling space, SMF batt insulation within wall cavities. Typical throughout Research Laboratory.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Above AGSU, Admin, Transplant and Research Department – Accessed via gantry walkway. SMF ductwork insulation - Typical throughout ceiling voids.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Above AGSU, Admin, Transplant and Research Department – Accessed via gantry walkway. Flexible SMF ductwork insulation - Typical throughout ceiling voids.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Above AGSU, Admin, Transplant and Research Department – Accessed via gantry walkway. SMF sarking insulation - Typical throughout ceiling voids.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Above AGSU, Admin, Transplant and Research Department – Accessed via gantry walkway. SMF batt insulation across ceiling tiles beneath - Typical throughout ceiling voids.	

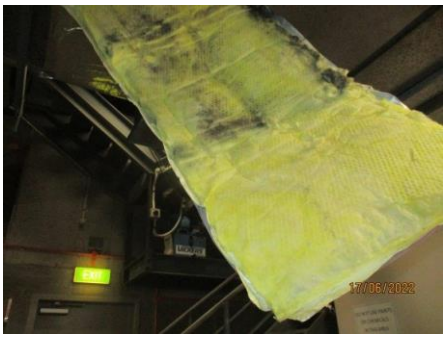
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Above AGSU, Admin, Transplant and Research Department – Accessed via gantry walkway. SMF batt insulation within wall cavities - Typical throughout ceiling voids.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 3, Above AGSU, Admin, Transplant and Research Department – Accessed via gantry walkway. Kaowool within service penetrations - Typical throughout ceiling voids.	

Synthetic Mineral Fibres (SMF)

Level 4 Register

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above departments, throughout, ceiling – sarking insulation beneath roof. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above departments – pipework insulation. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above departments, throughout, wall cavities – filters for Air Handling Units.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above departments, between blockwork, brickwork and ceiling slab – “Kaowool”. Typical throughout Plant Rooms.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Room above departments, insulation around flue pipes, beneath metal cladding. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Room above departments, insulation around flue pipes, beneath metal cladding. SMF blanket insulation. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above Wards F-K, throughout, ceiling – sarking insulation beneath roof. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above Wards F-K, between blockwork – “Kaowool”. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above Wards F-K, between blockwork and ceiling slab – “Kaowool”. Typical throughout Plant Rooms.	

	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above Wards F-K, insulation around flue pipes, beneath metal cladding. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above Wards F-K, pipe insulation, beneath metal cladding. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above Departments, pipe insulation, beneath metal cladding. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above Wards F-K, blanket insulation around ducting. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above Wards F-K, insulation within ducting. Typical throughout Plant Rooms and within ducting.	

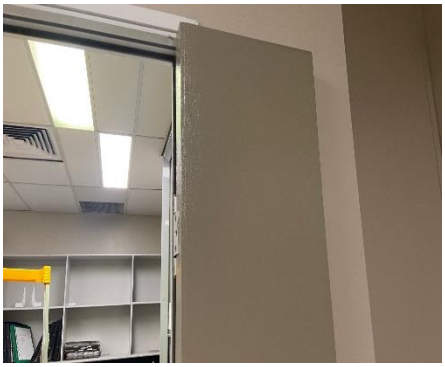
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, Plant Rooms above Wards F-K, Kaowool insulation within penetrations. Typical throughout Plant Rooms.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, open ceiling void above operating theatres and offices, flexible duct insulation and batt insulation	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, open ceiling void above operating theatres and offices, sarking insulation beneath roof.	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, open ceiling void above operating theatres and offices, flexible duct insulation and batt insulation	
	**Visual Inspection**	
	SMF Identified:	Yes
	Location:	Internal
	Level 4, open ceiling void above operating theatres and offices, duct insulation and batt insulation	

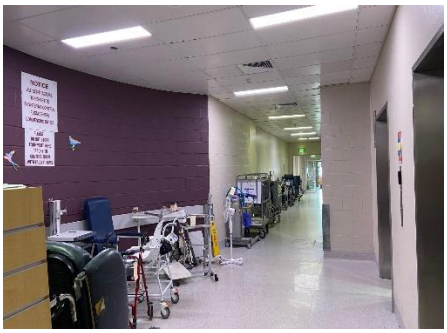
Visual Inspection	
SMF Identified:	Yes
Location:	Internal
Level 4, Roof Plant Rooms, sarking insulation beneath metal roof. Typical throughout Plant Rooms.	

Visual Inspection	
SMF Identified:	Yes
Location:	Internal
Level 4, Small Plant Room adjacent roof access, SMF sarking insulation beneath metal roof.	

Lead Containing Paint

Level 0 Register

	**Sample No.: PRJ000914-LCP001**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 0, north-east end, Mortuary, Laboratory Room 0036 & 0037, throughout, paint to walls	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP002**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 0, north-east end, Mortuary, Laboratory Room 0036, door between rooms (door 3366) – grey upper/blue lower paint.	
	Extent:	2 Units
	**Sample No.: PRJ000914-LCP003**	
	Lead Detected:	No 0.052% w/w
	Location:	Internal
	Level 0, north-east end, Mortuary, loading dock adjacent roller door, fire door – white upper paint.	
	Extent:	1 Unit
	**Sample No.: PRJ000914-LCP011**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 0, Back of House, Engineering, walls – white upper paint.	
	Extent:	Throughout

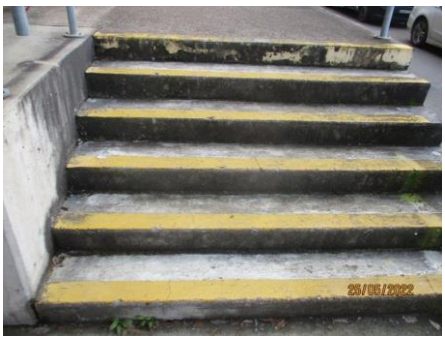
	**Sample No.: PRJ000914-LCP019**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 0, Back of House, Engineering, Corridor/fire stars walls – white upper paint.	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP020**	
	Lead Detected:	Yes 0.016% w/w
	Location:	Internal
	Level 0, Back of House, Engineering, Corridor/fire stars, fire door and frame, grey paint	
	Extent:	1 Unit
	**Sample No.: PRJ000914-LCP021**	
	Lead Detected:	No 0.009% w/w
	Location:	Internal
	Level 0, Back of House, Engineering, Corridor/lift lobby walls – purple upper paint.	
	Extent:	10 sqm
	**Sample No.: PRJ000914-LCP022**	
	Lead Detected:	No 0.04% w/w
	Location:	Internal
	Level 0, Back of House, Engineering, Corridor, fire hose reel cupboard, red paint to hydrant pipework. Typical of red fire hydrant pipework throughout building	
	Extent:	2 lin m
	**Sample No.: PRJ000914-LCP023**	
	Lead Detected:	No 0.098% w/w
	Location:	Internal
	Level 0, Plant Room entrance, pink/faded white paint to door and frame.	
	Extent:	3 units

	**Sample No.: PRJ000914-LCP024**	
	Lead Detected:	No 0.01% w/w
	Location:	Internal
	Level 0, Lobby adjacent Room 3267 Dark room, green paint to walls.	
	Extent:	10 sqm
	**Sample No.: PRJ000914-LCP025**	
	Lead Detected:	Yes 0.15% w/w
	Location:	Internal
	Level 0, Plant Room, throughout, Air Handling Units and ductwork– blue upper paint.	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP026**	
	Lead Detected:	No 0.03% w/w
	Location:	Internal
	Level 0, Plant Room, throughout, Green paint to metal pipework cladding	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP027**	
	Lead Detected:	Yes 0.15% w/w
	Location:	Internal
	Level 0, Compressor Room, throughout, Blue paint to compressed air pipework and tanks	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP028**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 0, Fire escape at rear of 0025 plant room, white paint to walls.	
	Extent:	Throughout

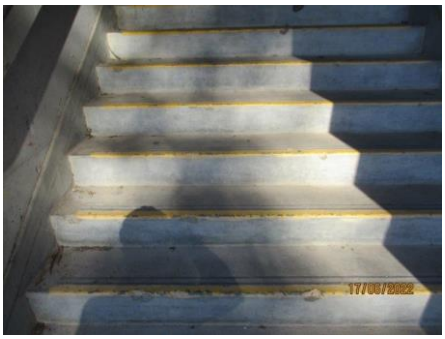
Sample No.: PRJ000914-LCP029	
Lead Detected:	No <0.005% w/w
Location:	Internal
Level 0, Room 0055, white paint to walls	
Extent:	Throughout

Sample No.: PRJ000914-LCP030	
Lead Detected:	No <0.005% w/w
Location:	Internal
Level 0, Corridor adjacent mortuary, grey paint to walls	
Extent:	Throughout

Sample No.: PRJ000914-LCP031	
Lead Detected:	No <0.005% w/w
Location:	Internal
Level 0, Corridor adjacent mortuary, white paint to walls	
Extent:	Throughout



Sample No.: PRJ000914-LCP032	
Lead Detected:	Yes 2.2 % w/w
Location:	External
Level 0, Yellow line marking paint on steps. Representative of line marking paint on site.	
Extent:	10 lin m

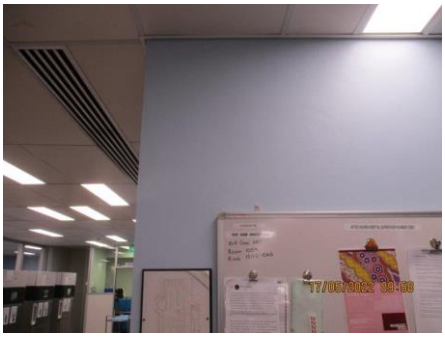


Same as Sample No.: PRJ000914-LCP032	
Lead Detected:	Yes 2.2 % w/w
Location:	External
Level 0, Fire escapes, Yellow line marking paint on steps. Representative of line marking paint on site.	
Extent:	10 lin m per set of stairs

Lead Containing Paint

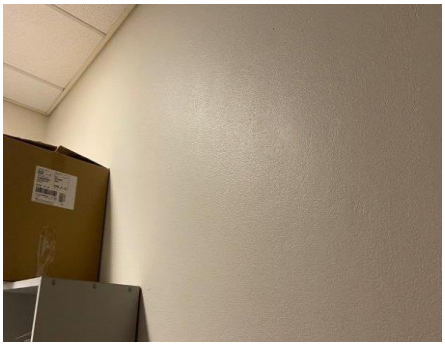
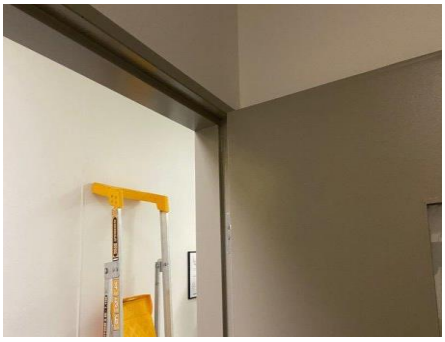
Level 1 Register

	**Sample No.: PRJ000914-LCP0015**	
	Lead Detected:	No 0.007% w/w
	Location:	Internal
	Level 1, G1, throughout, walls – white upper paint.	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP0016**	
	Lead Detected:	No 0.10% w/w
	Location:	Internal
	Level 1, G1, throughout, doors/door frames – grey upper paint.	
	Extent:	Throughout
	**Sample No.: Same as: PRJ000914-LCP002**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 1, Kitchen, Dry Storeroom (1041) door, grey upper paint.	
	Extent:	1 Unit
	**Sample No.: PRJ000914-LCP007**	
	Lead Detected:	Yes 0.15% w/w
	Location:	Internal
	Level 1, Central Sterilisation Department, fire hose reel cupboard (1059) door and columns – blue upper paint.	
	Extent:	3 sqm

	**Sample No.: PRJ000914-LCP008**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 1, Central Sterilisation Department, fire hose reel cupboard (1059), walls throughout – light blue upper paint.	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP009**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 1, Central Sterilisation Department, fire hose reel cupboard (1059), walls – aqua upper paint.	
	Extent:	2 sqm

Lead Containing Paint

Level 2 Register

	**Sample No.: PRJ000914-LCP004**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 2, Executive Suite, Room 2340 (Storeroom) throughout, walls – white upper paint.	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP005**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 2, Executive Suite, Room 2340 (Storeroom), door, grey upper paint.	
	Extent:	1 Unit
	**Sample No.: PRJ000914-LCP006**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 2, Executive Suite, corridor, fire hose reel cupboard, back wall – blue upper paint.	
	Extent:	2 sqm
	**Sample No.: Same as: PRJ000914-LCP003**	
	Lead Detected:	No 0.052% w/w
	Location:	Internal
	Level 2, Emergency Department, walls – white upper paint.	
	Extent:	Throughout

	**Sample No.: Same as: PRJ000914-LCP002**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 2, Emergency Department, doors/door frames – grey upper paint.	
	Extent:	Throughout
	**Sample No.: Same as: PRJ000914-LCP002**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 2, Ward H2, corridor, throughout – grey upper paint to doors/door frames.	
	Extent:	Throughout
	**Sample No.: Same as: PRJ000914-LCP003**	
	Lead Detected:	No <0.052% w/w
	Location:	Internal
	Level 2, Ward H2, corridor, throughout – white upper paint to walls.	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP010**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 2, Pharmacy, fire hose reel cupboard (2657) walls – pink upper paint	
	Extent:	2 sqm

Lead Containing Paint

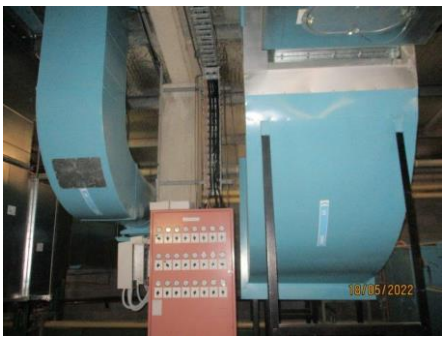
Level 3 Register

	**Sample No.: Same as: PRJ000914-LCP0012**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 3, Neonatal Intensive Care Unit, throughout – white upper paint (modern).	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP0012**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 3, Neonatal Intensive Care Unit, fire hose reel WIP/MCP cupboard, walls – white upper paint.	
	Extent:	2 sqm
	**Sample No.: Same as: PRJ000914-LCP0012**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 3, Birthing, throughout, walls – white upper paint.	
	Extent:	Throughout
	**Sample No.: Same as: PRJ000914-LCP002**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 3, Birthing, throughout, doors/door frames – grey upper paint.	
	Extent:	Throughout

	**Sample No.: PRJ000914-LCP017**	
	Lead Detected:	No <0.005% w/w
	Location:	Internal
	Level 3, Ward H3, throughout, corridor, walls – white upper paint.	
	Extent:	Throughout
	**Sample No.: PRJ000914-LCP018**	
	Lead Detected:	Yes 0.12% w/w
	Location:	Internal
	Level 3, Ward H3, Garbage/Dirty Linen Room adjacent fire door exit, doors – grey upper paint.	
	Extent:	2 units

Lead Containing Paint

Level 4 Register

	**Sample No.: PRJ000914-LCP013**	
	Lead Detected:	Yes 0.12% w/w
	Location:	Internal
	Level 4, Plant Room, throughout, Air Handling Units – blue upper paint.	
	Extent:	Ducting throughout
	**Sample No.: PRJ000914-LCP014**	
	Lead Detected:	No 0.076% w/w
	Location:	Internal
	Level 4, Plant Room, Double fire door – grey upper paint.	
	Extent:	2 units
	**Same as Sample No.: PRJ000914-LCP013**	
	Lead Detected:	Yes 0.12% w/w
	Location:	Internal
	Level 4, Plant Rooms, throughout, Air Handling Units – blue upper paint.	
	Extent:	Ducting throughout
	**Same as Sample No.: PRJ000914-LCP026**	
	Lead Detected:	No 0.03% w/w
	Location:	Internal
	Level 4, Plant Rooms, throughout, Green paint to metal pipework cladding	
	Extent:	Throughout

Lead Dust

Level 0 Register

Sample No.: PRJ000914-LCD007	
Lead Detected:	No 100 mg/kg
Location:	Internal
Level 0, Lobby adjacent 3267 Dark room, settled dust to floor	
Extent:	6 sqm

Sample No.: PRJ000914-LCD008	
Lead Detected:	No 34 mg/kg
Location:	Internal
Level 0, Plant room 0066, settled dust to floor	
Extent:	Throughout

Lead Dust

Level 1 Register

Sample No.: PRJ000914-LCD005	
Lead Detected:	No 30 mg/kg
Location:	Internal
Level 1, G1, throughout, ceiling space – dust along horizontal surfaces.	
Extent:	Throughout

Lead Dust

Level 2 Register

Sample No.: PRJ000914-LCD001	
Lead Detected:	No 74 mg/kg
Location:	Internal
Level 2, Ward H2, Storeroom adjacent corridor and fire door exit, ceiling space on tiles – dust along horizontal surfaces.	
Extent:	Throughout

Lead Dust

Level 3 Register

Sample No.: PRJ000914-LCD006	
Lead Detected:	No 94 mg/kg
Location:	Internal
Level 3, Ward H3, Garbage/Dirty Linen Room, throughout, ceiling space – dust along horizontal surfaces.	
Extent:	Throughout

Lead Dust

Level 4 Register

Sample No.: PRJ000914-LCD002	
Lead Detected:	No 41 mg/kg
Location:	Internal
Level 4, Plant room, throughout, ground – dust along horizontal surfaces.	
Extent:	Throughout

Sample No.: PRJ000914-LCD003	
Lead Detected:	No 27 mg/kg
Location:	Internal
Level 4, Plant room, throughout, ground – dust along horizontal surfaces.	
Extent:	Throughout

Sample No.: PRJ000914-LCD004	
Lead Detected:	No 260 mg/kg
Location:	Internal
Level 4, Plant room, top of Air Handling Units – dust along horizontal surfaces.	
Extent:	Throughout

Polychlorinated Biphenyls (PCBs)

Typical Examples of Florescent Lights observed throughout site.

	**Visual Inspection**	
	PCBs Identified:	No
	Location:	Internal
	Level 0, Plant room, Fluorescent light - single tube (modern). Typical throughout building	
	**Visual Inspection**	
	PCBs Identified:	No
	Location:	Internal
	Level 2, Emergency Department, Fluorescent light - double tube (modern). Typical throughout building	
	**Visual Inspection**	
	PCBs Identified:	No
	Location:	Internal
	Level 4, Plant Room, Fluorescent light - double tube (modern). Typical throughout building	

Appendix B RISK ASSESSMENT METHODOLOGY

RISK ASSESSMENT

PRA uses the following material and location assessments for each of the materials identified within the asbestos Register as listed in **Table A**.

Table A: Asbestos Risk Assessment Criteria

Risk of Fibre Release		Risk	Description
Material Assessment	**1. Product Type** (risk of fibre release due to type of material i.e. friability)	**Non-friable**	The material type is not prone to fibre release due to the presence of resins or asbestos-reinforced composites (e.g. mastic, vinyl floor tiles, asbestos cement).
		Friable	The material type can release fibres upon impact (e.g. insulation such as loose fill, lagging AIB, LDB, millboard, gaskets, ropes and woven textiles, asbestos paper and felt). The material type is highly likely to release fibres upon impact (e.g. friable insulation such as loose fill, lagging etc.).
	2. Material Condition (risk of fibre release due to current condition of material)	**Good**	No sign of damage or deterioration.
		Fair	Minor damage or deterioration (e.g. few scratches/marks, broken edges, significate breakage and many small areas of damaged revealing loose asbestos fibres
		Poor	Significant damage or deterioration of materials, sprays and thermal insulation. Visible asbestos debris.
	3. Extent	Quantity of ACM in units, sq m, lin m.	

PRA adopts the following material assessments in order to assess the risk associated with hazardous materials identified other than asbestos in **Table B**.

Table B: Hazardous Materials Risk Assessment Criteria

Risk Assessment Variables		Risk Rating	Description
Friability	**Friable**	**N/A**	Applicable to PCB, LCP, LCD
		N	Bonded SMF
		Y	Loose or unbonded SMF
Extent		Quantity of HM in sq m, lin m.	

The asbestos information in this report is supplied on the understanding that the area surveyed is to be subject to demolition or major refurbishment and that all identified ACM and other hazardous materials will be removed prior to, or as part of those works. Refer to **Table C overleaf.**

Table C: Recommendations

Risk Assessment		Description
Positive	**Low to High**	Access to the material should be restricted. All asbestos and other hazardous materials likely or liable to be disturbed by the proposed works should be removed prior to, or during demolition, refurbishment or decommissioning.
The asbestos information contained within this report is insufficient to meet the requirement for risk assessment for a management plan. The following recommendations are provided for any ACM remaining in-situ at the end of the project regardless of their risk rating: ○ All materials must be documented in a Register and managed in accordance with a site-specific Asbestos Management Plan (AMP) or Hazardous Material Management Plan (HMMP); ○ The asbestos register must be updated at least every five years or earlier if required by changes to a materials' status or condition, further materials are identified or the AMP is revised; ○ Any asbestos removal works must be carried out in accordance with the relevant legislation; and where required by appropriately licensed contractors for the removal, air monitoring and clearance works. ○ Prior to any renovation or demolition work, a Destructive Asbestos Survey Report should be prepared to determine the presence of further materials within inaccessible areas and if required, for excluded materials.		

Appendix C LABORATORY CERTIFICATES OF ANALYSIS

Property Risk Australia Pty Ltd
ABN:65 611 579 223
PO BOX 95, Mascot NSW 1460
www.propertyrisk.com.au

Certificate of Analysis
Asbestos Fibre Identification Report

PRA Ref:	PRJ000914_AS001-AS044_V1	**Report Date:**	19/05/2022
Client Name:	Multiplex Pty Ltd	**Client Contact:**	Gabrielle Wrightson
Client Address:	Level 23, 135 King Street, Sydney NSW 2000		
Site Address:	John Hunter Hospital, Lookout Road, New Lambton Heights, NSW 2305		
Sampled By:	James Stewart	**Sampled Date:**	16/05/2022
No. of Samples:	44	**Received Date:**	19/05/2022

Test Method: Qualitative identification for asbestos fibre in bulk samples using Polarised Light Microscopy and dispersion staining techniques including synthetic mineral fibre (SMF) and organic fibre as per Australia Standard 4964-2004 and supplementary in-house method Asbestos in Bulk Material (ASB2). The practical detection limit for this techniques is 0.01 - 0.1% equivalent to 0.1 - 1g/kg.
Due to nature of asbestos in bulk material such as vinyl, resins, mastic and caulking, asbestos may be difficult to detect (as per AS 4964 Note). Confirmation by independent analytical technique may be required.
Samples were analysed by Approved Identifier Aida Marner on 19/05/2022 at the PRA Base Laboratory at Unit 24, 34-36 Ralph Street, Alexandria NSW 2015.

Measurement of Uncertainty: Due to the qualitative nature of the methodology relating to the identification of asbestos in bulk samples, an estimation of uncertainty of measurement cannot be performed.

Disclaimer: The results within this report relate only to the sampling locations specified and their analysis. This report shall not be reproduced, except in full. Sections of this report denoted with an asterisk (*) are not covered by the NATA accreditation.
When samples are analysed 'As Received', PRA accepts no responsibility for the initial collection, packing or transportation of samples submitted by client.

Technical Review By:

Approved Identifier: Aida Marner

Approved By:

Approved Signatory: Paul Ching

Samples are routinely disposed of approximately 3 months from receipt. Request for longer term sample storage must be received in writing.

NATA Accreditation Number: 20447
Accredited for compliance with ISO/IEC 17025 - Testing

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914_ AS001	Internal, Level 0, north-east end, Mortuary, Laboratory Room 0036 & 0037, on ground	0.77g	Grey flexible vinyl sheet and amber adhesive	No asbestos detected Synthetic mineral fibre detected
PRJ000914_ AS002	Internal, Level 0, north-east end, Mortuary, Laboratory Room 0036 & 0037, ceiling space	0.07g	Grey rubbery mastic	No asbestos detected (Note 3)
PRJ000914_ AS003	Internal, Level 0, north-east end, Mortuary, Laboratory Room 0036 & 0037, ceiling space	0.14g	Grey vitreous fibrous insulation	No asbestos detected Synthetic mineral fibre detected
PRJ000914_ AS004	Internal, Level 0, north-east corner of Mortuary Loading Dock, adjacent roller doors, between brickwork	0.18g	Grey rubbery mastic	No asbestos detected
PRJ000914_ AS005	Internal, Level 0, north-east end, Mortuary Loading Dock, between ceiling slab and render bricks	1.02g	White vitreous fibrous insulation	No asbestos detected Synthetic mineral fibre detected
PRJ000914_ AS006	Internal, Level 2, Executive Suite, Room 2340 (Store Room), throughout, beneath carpet tiles	0.01g	Amber adhesive	No asbestos detected Organic fibre detected Synthetic mineral fibre detected
PRJ000914_ AS007	Internal, Level 2, Executive Suite, room 2340 (Store Room), throughout, ceiling space, air conditioning ductwork, between flanges	0.07g	Grey rubbery mastic	No asbestos detected

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914_ AS008	Internal, Level 2, Emergency Department, north-west end, room 2073 (Disposal Room) ceiling space, partition walls	1.75g	Peach layered fibre cement material	No asbestos detected Organic fibre detected
PRJ000914_ AS009	Internal, Level 2, Emergency Department, throughout, room 2100 (Dirty Utility Room), floor coverings	1.03g	Light blue vitreous fibrous flexible vinyl sheet and amber adhesive	No asbestos detected Synthetic mineral fibre detected
PRJ000914_ AS010	Internal, Level 2, Emergency Department, adjacent bed 1 and fire door, ceiling space, air conditiong ductwork, between flanges	0.20g	Grey rubbery mastic	No asbestos detected
PRJ000914_ AS011	Internal, Level 2, Emergency Department, Room 2065 (Store Room 4), ceiling space, penetrations	0.46g	Beige fibrous mica vermiculite	No asbestos detected Organic fibre detected Synthetic mineral fibre detected
PRJ000914_ AS012	Internal, Level 1, Central Sterilisation Department, throughout, ceiling space	5.60g	Grey vitreous fibrous insulation	No asbestos detected Synthetic mineral fibre detected
PRJ000914_ AS013	Internal, Level 1, Central Sterilisation Department, fire hose reel cupboard (1059) ceiling space	0.59g	Beige mica vermiculite	No asbestos detected Organic fibre detected
PRJ000914_ AS014	Internal, Level 1, Central Sterilisation Department, fire hose reel cupboard, on ground	0.29g	Grey rubbery mastic	No asbestos detected Synthetic mineral fibre detected
PRJ000914_ AS015	Internal, Level 1, Central Sterilisation Department, expansion joint	0.03g	Painted, beige rubbery mastic	No asbestos detected

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914_ AS016	Internal, Level 2, Ward H2, Store Room, adjacent corridor and fire door exit, ceiling space, air conditioning ductwork	0.94g	Grey rubbery mastic	No asbestos detected
PRJ000914_ AS017	Internal, Level 2, Ward H2, Store Room, adjacent corridor and fire door exit, surrounding penetrations	1.21g	Beige fibrous mica vermiculite	No asbestos detected Organic fibre detected Synthetic mineral fibre detected
PRJ000914_ AS018	Internal, Level 2, Ward H2, Store Room, corridor, fire door (installed 1981)	0.02g	Beige fibrous mica vermiculite	No asbestos detected Organic fibre detected Synthetic mineral fibre detected
PRJ000914_ AS019	Internal, Level 2, Ward H2, Store Room, adjacent corridor, fire hose reel cupboard, on ground around penetration	0.46g	Clear rubbery mastic	No asbestos detected Organic fibre detected
PRJ000914_ AS020	Internal, Level 2, Ward H2, Room 2808, (Electrical Distribution Cupboard), penetrations	1.24g	Beige vitreous fibrous insulation	No asbestos detected Synthetic mineral fibre detected
PRJ000914_ AS021	Internal, Level 2, Ward H2, Room 2846 (Dirty Laundry/Toilet Utility Room), throughout, floor coverings	0.23g	Black rubbery mastic, grey vinyl sheet and amber adhesive	No asbestos detected
PRJ000914_ AS022	External, Level 1, Back of House, throughout, concrete walls and columns, on ground	13.29g	Grey rubbery mastic and beige quartz cement	No asbestos detected
PRJ000914_ AS023	Internal, Level 2, Pharmacy, fire hose reel cupboard, throughout, floor coverings	1.00g	Grey vinyl tile and amber adhesive	No asbestos detected Synthetic mineral fibre detected

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914_ AS024	Internal, Level 1, Kitchen, Offices 1023 to 1025, floor coverings	0.14g	Beige vinyl tile and amber adhesive	No asbestos detected
PRJ000914_ AS025	Internal, Level 0, Back of House, Engineering, adjacent metal mesh	2.64g	Grey layered fibre cement material and fibrous backing	No asbestos detected Organic fibre detected
PRJ000914_ AS026	Internal, Level 4, Plant Room, west end, fire door (installed 1980's)	0.09g	Beige fibrous mica vermiculite	No asbestos detected Organic fibre detected
PRJ000914_ AS027	Internal, Level 4, Plant Room, soil vent pipe, penetration on ground	0.24g	Clear stretchy rubbery mastic	No asbestos detected
PRJ000914_ AS028	Internal, Level 4, Plant Room, adjacent soil vent pipework, between expansion joint	0.99g	Grey rubbery mastic	No asbestos detected
PRJ000914_ AS029	Internal, Level 4, Plant Room, throughout, ceiling	22.71g	Beige fibrous mica vermiculite	No asbestos detected Organic fibre detected Synthetic mineral fibre detected
PRJ000914_ AS030	Internal, Level 4, Plant Room, Air Handling Units, surrounding pipe penetrations	0.07g	Grey stretchy rubbery mastic	No asbestos detected Organic fibre detected
PRJ000914_ AS031	Internal, Level 4, Plant Room, throughout, Air handling Units, between flanges	0.33g	Painted, grey rubbery mastic	No asbestos detected
PRJ000914_ AS032	Internal, Level 4, Plant Room, throughout, Air handling Units, between flanges	0.09g	Painted, grey rubbery mastic	No asbestos detected
PRJ000914_ AS033	Internal, Level 4, Plant Room, behind access panel, adjacent Air Handling Units 28 & 29	23.44g	Beige mica vermicultie	No asbestos detected

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914_ AS034	Internal, Level 4, Plant Room, west end, adjacent Air Handling Unit and hot water heater pipework, flanges	0.76g	Black rubbery mastic	No asbestos detected
PRJ000914_ AS035	Internal, Level 4, Plant Room, west end, throughout, ceiling	4.13g	Grey vitreous fibrous insulation	No asbestos detected Synthetic mineral fibre detected
PRJ000914_ AS036	Internal, Level 1, G1, adjacent fire door and staff changerooms 1207 &1210, floor coverings	1.04g	Beige vinyl tile	No asbestos detected Synthetic mineral fibre detected
PRJ000914_ AS037	Internal, Level 1, G1, adjacent toilet 1228, ceiling space	0.13g	Beige rubbery mastic	No asbestos detected
PRJ000914_ AS038	Internal, Level 3, Birthing, Lobby adjacent Room 9, duct joints	0.18g	Grey rubbery mastic	No asbestos detected
PRJ000914_ AS039	Internal, Level 3, Birthing, fire hose reel cupboard 3519, floor coverings	2.76g	Grey flexible vitreous fibrous vinyl sheet and clear adhesive	No asbestos detected Synthetic mineral fibre detected
PRJ000914_ AS040	Internal, Level 3, Intensive Care Unit, corridor outside ICU, between expansion joints	0.81g	Black rubbery mastic	No asbestos detected
PRJ000914_ AS041	Internal, Level 3, Intensive Care Unit, Door 3079 (Communication Cupboard) floor coverings	2.54g	Beige vinyl tile and amber adhesive	No asbestos detected Organic fibre detected Synthetic mineral fibre detected
PRJ000914_ AS042	Internal, Level 3, Intensive Care Unit, adjacent ICU high risk area, corridor, ceiling space, structural beams	0.75g	Beige fibrous mica vermiculite	No asbestos detected Organic fibre detected Synthetic mineral fibre detected

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914_ AS043	Internal, Level 3, Ward H3, Garbage/Dirty Linen Room, celing space, flanges to air conditioning ductwork	0.15g	Grey rubbery mastic	No asbestos detected
PRJ000914_ AS044	Internal, Level 3, Ward H3, corridor adjacent fire doors and Garbage/Dirty Linen Room, ceiling space	1.73g	Beige fibrous mica vermiculite	No asbestos detected Organic fibre detected

- Shaded row indicates positive result for asbestos

Note:

3 Sample is below the recommended sample size. Further sampling of material may be required.

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Certificate of Analysis
Asbestos Fibre Identification Report

PRA Ref:	PRJ000914_AS045-AS077_V1	**Report Date:**	26/05/2022
Client Name:	Multiplex Pty Ltd	**Client Contact:**	Brett McFadzinn
Client Address:	Level 23, 135 King Street, Sydney NSW 2000		
Site Address:	John Hunter Hospital, Lookout Road, New Lambton Heights, NSW 2305		
Sampled By:	James Stewart	**Sampled Date:**	23 - 25/05/2022
No. of Samples:	33	**Received Date:**	26/05/2022

Test Method: Qualitative identification for asbestos fibre in bulk samples using Polarised Light Microscopy and dispersion staining techniques including synthetic mineral fibre (SMF) and organic fibre as per Australia Standard 4964-2004 and supplementary in-house method Asbestos in Bulk Material (ASB2). The practical detection limit for this techniques is 0.01 - 0.1% equivalent to 0.1 - 1g/kg.
Due to nature of asbestos in bulk material such as vinyl, resins, mastic and caulking, asbestos may be difficult to detect (as per AS 4964 Note). Confirmation by independent analytical technique may be required.
Samples were analysed by Approved Identifier Aida Marner on 26/05/2022 at the PRA Base Laboratory at Unit 24, 34-36 Ralph Street, Alexandria NSW 2015.

Measurement of Uncertainty: Due to the qualitative nature of the methodology relating to the identification of asbestos in bulk samples, an estimation of uncertainty of measurement cannot be performed.

Disclaimer: The results within this report relate only to the sampling locations specified and their analysis. This report shall not be reproduced, except in full. Sections of this report denoted with an asterisk (*) are not covered by the NATA accreditation.
When samples are analysed 'As Received', PRA accepts no responsibility for the initial collection, packing or transportation of samples submitted by client.

Technical Review By:

Approved Identifier: Aida Marner

Approved By:

Approved Signatory: Paul Ching

Samples are routinely disposed of approximately 3 months from receipt. Request for longer term sample storage must be received in writing.

NATA Accreditation Number: 20447
Accredited for compliance with ISO/IEC 17025 - Testing

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914-AS045	Level 0, Internal, BOH, Engineering corridor, lift lobby, expansion joint	0.62g	Grey rubbery mastic material	No asbestos detected
PRJ000914-AS046	Level 0, Internal, BOH, Engineering corridor, column adj 0075 furniture storeroom	0.05g	Painted, beige fibre cement material	No asbestos detected Organic fibre detected
PRJ000914-AS047	Level 0, Internal, BOH, Engineering corridor, mottled grey floor covering	1.22g	Grey flexible vinyl sheet and yellow adhesive	No asbestos detected
PRJ000914-AS048	Level 0, Internal, BOH, Engineering, male changing room, in floor around column	0.65g	Black bituminous material	No asbestos detected Organic fibre detected
PRJ000914-AS049	Level 0, Internal, BOH, Engineering, above male changing room, sprayed insulation to beam	3.04g	Grey vitreous fibrous insulation material	No asbestos detected Synthetic mineral fibre detected
PRJ000914-AS050	Level 0, Internal, Plantroom (0020) lobby, mastic to duct joints	0.26g	Grey rubbery mastic material	No asbestos detected
PRJ000914-AS051	Level 0, Internal, Plantroom (0020) lobby, grey floor covering	1.05g	Painted, grey flexible vinyl sheet	No asbestos detected Synthetic mineral fibre detected
PRJ000914-AS052	Level 0, Internal, Plantroom (0020) lobby, darkroom partition wall	0.03g	Painted, peach fibre cement material	No asbestos detected Organic fibre detected
PRJ000914-AS053	Level 0, Internal, 0020 Plantroom, adjacent roller shutter, expansion joint	0.44g	Grey rubbery mastic material	No asbestos detected
PRJ000914-AS054	Level 0, Internal, 0020 Plantroom, adjacent chiller room, panel to stored door	0.12g	Beige layered fibre cement material	No asbestos detected Organic fibre detected

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914-AS055	Level 0, Internal, 0020 Plantroom, mastic around chilled water pipework penetration	0.16g	Painted, grey sticky rubbery mastic material	No asbestos detected Synthetic mineral fibre detected
PRJ000914-AS056	Level 0, Internal, 0020 Plantroom, perforated ceiling panels	0.91g	Painted, brown compressed organic material	No asbestos detected Organic fibre detected
PRJ000914-AS057	Level 0, Internal, 0029 Boiler Room, SW wall, gasket residue to redundant pipe flanges	0.56g	Silver gasket	No asbestos detected
PRJ000914-AS058	Level 0, Internal, 0029 Boiler Room, Steam Boiler No.1, gasket to rear	0.11g	White vitreous fibrous insulation material	No asbestos detected Synthetic mineral fibre detected
PRJ000914-AS059	Level 0, Internal, 0029 Boiler Room, Steam Boiler No.1, north side, gaskets to flanges	0.08g	Brown gasket	No asbestos detected Organic fibre detected
PRJ000914-AS060	Level 0, Internal, 0029 Boiler Room, Steam Boiler No.1, NE side, gaskets to flanges	0.07g	Brown fibrous gasket	No asbestos detected Organic fibre detected
PRJ000914-AS061	Level 0, Internal, 0029 Boiler Room, Adj Fire door to 0025, gasket residue to redundant flanges	0.23g	Silver gasket	No asbestos detected
PRJ000914-AS062	Level 0, Internal, 0029 Boiler Room, Adj Fire door to 0025, loose gasket	38.74g	Brown compressed gasket	No asbestos detected Organic fibre detected
PRJ000914-AS063	Level 0, Internal, 0029 Boiler Room, penetration packing on AHU	28.74g	Grey cement material and vitreous fibrous insulation	No asbestos detected Synthetic mineral fibre detected
PRJ000914-AS064	Level 0, Internal, 0029 Boiler Room, black gaskets to secondary water heating pumps	0.44g	Black compressed bituminous material	No asbestos detected Synthetic mineral fibre detected

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914-AS065	Level 0, Internal, 0029 Boiler Room, Bunderus Boiler, gasket to rear	0.02g	Painted, brown organic fibrous material	Chrysotile asbestos detected Organic fibre detected
PRJ000914-AS066	Level 0, Internal, 0029 Boiler Room, Bunderus Boiler, gasket to end cap	0.06g	Peach fibrous insulation material	No asbestos detected Synthetic mineral fibre detected
PRJ000914-AS067	Level 0, Internal, 0029 Boiler Room, mastic to AC duct	1.67g	Grey rubbery mastic material	No asbestos detected
PRJ000914-AS068	Level 0, Internal, 0024 Compressor Room, gaskets to No.1 & No.2 receiver tanks and pipework	0.07g	Peach fibrous gasket	Chrysotile asbestos detected
PRJ000914-AS069	Level 0, Internal, 0024 Compressor Room, gaskets to compressed air pipework flanges	0.01g	Peach fibrous gasket	Chrysotile asbestos detected
PRJ000914-AS070	Level 0, Internal, 0025 Undercroft plant area, gaskets to natural gas isolation valve	0.01g	Grey gasket	Chrysotile asbestos detected
PRJ000914-AS071	Level 0, Internal, 0025 Undercroft plant area, green gaskets to pipework	0.14g	Grey gasket	Chrysotile asbestos detected
PRJ000914-AS072	Level 0, Internal, 0025 Undercroft plant area, gasket to soil pipe	0.014g	Brown rubbery gasket	No asbestos detected
PRJ000914-AS073	Level 0, Internal, Room 0055, bitumen pad beneath sink	0.16g	Brown bituminous material	No asbestos detected Organic fibre detected
PRJ000914-AS074	Level 0, Internal, Room 0055, grey lino by entrance	1.47g	Blue flexible vinyl sheet and amber adhesive	No asbestos detected Organic fibre detected

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914-AS075	Level 0, External, adjacent ambulance charging area, panel to underside of entrance canopy	0.10g	Painted, grey fibre cement material	No asbestos detected Organic fibre detected
PRJ000914-AS076	Level 0, External, adjacent ambulance charging area, expansion joints between brick wall and concrete	0.08g	Black bituminous fibrous material	No asbestos detected Organic fibre detected
PRJ000914-AS077	Level 0, Internal, 0029 Boiler Room, Gaskets to grey tank	0.18g	Painted, orange gasket material	No asbestos detected Organic fibre detected

- Shaded row indicates positive result for asbestos

Property Risk Australia Pty Ltd
ABN:65 611 579 223
PO BOX 95, Mascot NSW 1460
www.propertyrisk.com.au

Certificate of Analysis
Asbestos Fibre Identification Report

PRA Ref:	PRJ000914_AS078-AS089_V1	**Report Date:**	2/06/2022
Client Name:	Multiplex Pty Ltd	**Client Contact:**	Brett McFadzinn
Client Address:	Level 23, 135 King Street, Sydney NSW 2000		
Site Address:	John Hunter Hospital, Lookout Road, New Lambton Heights, NSW 2305		
Sampled By:	James Stewart	**Sampled Date:**	30-31/05/2022
No. of Samples:	12	**Received Date:**	2/06/2022

Test Method: Qualitative identification for asbestos fibre in bulk samples using Polarised Light Microscopy and dispersion staining techniques including synthetic mineral fibre (SMF) and organic fibre as per Australia Standard 4964-2004 and supplementary in-house method Asbestos in Bulk Material (ASB2). The practical detection limit for this techniques is 0.01 - 0.1% equivalent to 0.1 - 1g/kg.
Due to nature of asbestos in bulk material such as vinyl, resins, mastic and caulking, asbestos may be difficult to detect (as per AS 4964 Note). Confirmation by independent analytical technique may be required.
Samples were analysed by Approved Identifier William Wu on 2/06/2022 at the PRA Base Laboratory at Unit 24, 34-36 Ralph Street, Alexandria NSW 2015.

Measurement of Uncertainty: Due to the qualitative nature of the methodology relating to the identification of asbestos in bulk samples, an estimation of uncertainty of measurement cannot be performed.

Disclaimer: The results within this report relate only to the sampling locations specified and their analysis. This report shall not be reproduced, except in full. Sections of this report denoted with an asterisk (*) are not covered by the NATA accreditation.
When samples are analysed 'As Received', PRA accepts no responsibility for the initial collection, packing or transportation of samples submitted by client.

Technical Review By:

Approved Identifier: William Wu

Approved By:

Approved Signatory: Aida Marner

Samples are routinely disposed of approximately 3 months from receipt. Request for longer term sample storage must be received in writing.

NATA Accreditation Number: 20447
Accredited for compliance with ISO/IEC 17025 - Testing

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914-AS078	Level 2, External, Corridor to Nexus, eaves	0.2g	Peach fibre cement material and painted, grey cement material	No asbestos detected Organic fibre detected
PRJ000914-AS079	Level 2, External, Corridor to Nexus, wall sheets	0.35g	Painted, peach fibre cement material	No asbestos detected Organic fibre detected
PRJ000914-AS080	Level 4, Internal, Plant Room, gasket to non-potable water pump valves	0.05g	Grey fibrous gasket	Chrysotile asbestos detected
PRJ000914-AS081	Level 4, Internal, Plant Room, gasket to hotwater valve sets	0.06g	Beige fibrous gasket	Chrysotile asbestos detected
PRJ000914-AS082	Level 4, Internal, Plant Room, gasket to end of hotwater pipework	0.05g	Black bituminous material	No asbestos detected
PRJ000914-AS083	Level 4, Internal, Plant Room, large gaskets to calorifiers	0.17g	Painted, brown gasket	No asbestos detected Organic fibre detected
PRJ000914-AS084	Level 2, Internal, Emergency Department waiting room, wall adjacent toilets	0.39g	Peach fibre cement material	No asbestos detected Organic fibre detected
PRJ000914-AS085	Level 2, External Emergency Department drop off area, expansion joint in floor	0.24g	Black bituminous fibrous material	No asbestos detected Organic fibre detected
PRJ000914-AS086	Level 1, Internal, Undercroft, NW end, gaskets to natural gas valve sets	0.09g	Beige fibrous gasket and amber adhesive	No asbestos detected Organic fibre detected
PRJ000914-AS087	Level 4, Internal, Roof space above Level 3 theatres, mastic to ductwork	0.21g	Grey rubbery mastic	No asbestos detected
PRJ000914-AS088	Level 0, Engineering, Fitters Workshop, roll of pre-cut grey gasket sheet material	1.72g	Grey fibrous gasket	No asbestos detected Organic fibre detected

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914-AS089	Level 0, Engineering, Fitters Workshop, Orange gasket template	0.14g	Painted, white gasket	No asbestos detected Organic fibre detected

- Shaded row indicates positive result for asbestos

Property Risk Australia Pty Ltd
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PO BOX 95, Mascot NSW 1460
www.propertyrisk.com.au

Certificate of Analysis
Asbestos Fibre Identification Report

PRA Ref:	PRJ000914_AS090-AS100_V1	**Report Date:**	21/06/2022
Client Name:	Multiplex Pty Ltd	**Client Contact:**	Brett McFadzinn
Client Address:	Level 23, 135 King Street, Sydney NSW 2000		
Site Address:	John Hunter Hospital, Lookout Road, New Lambton Heights, NSW 2305		
Sampled By:	James Stewart	**Sampled Date:**	16 and 17/06/2022
No. of Samples:	11	**Received Date:**	21/06/2022

Test Method: Qualitative identification for asbestos fibre in bulk samples using Polarised Light Microscopy and dispersion staining techniques including synthetic mineral fibre (SMF) and organic fibre as per Australia Standard 4964-2004 and supplementary in-house method Asbestos in Bulk Material (ASB2). The practical detection limit for this techniques is 0.01 - 0.1% equivalent to 0.1 - 1g/kg.
Due to nature of asbestos in bulk material such as vinyl, resins, mastic and caulking, asbestos may be difficult to detect (as per AS 4964 Note). Confirmation by independent analytical technique may be required.
Samples were analysed by Approved Identifier William Wu on 21/06/2022 at the PRA Base Laboratory at Unit 24, 34-36 Ralph Street, Alexandria NSW 2015.

Measurement of Uncertainty: Due to the qualitative nature of the methodology relating to the identification of asbestos in bulk samples, an estimation of uncertainty of measurement cannot be performed.

Disclaimer: The results within this report relate only to the sampling locations specified and their analysis. This report shall not be reproduced, except in full. Sections of this report denoted with an asterisk (*) are not covered by the NATA accreditation.
When samples are analysed 'As Received', PRA accepts no responsibility for the initial collection, packing or transportation of samples submitted by client.

Technical Review By:

Approved By:

Approved Identifier: William Wu

Approved Signatory: Paul Ching

Samples are routinely disposed of approximately 3 months from receipt. Request for longer term sample storage must be received in writing.

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Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914-AS090	Level 2, Internal, Medical Imaging, Short Stay, Fire hose cupboard, beige floor covering	3.17g	Beige flexible vinyl tile, amber adhesive and white plaster material	No asbestos detected Organic fibre detected Synthetic mineral fibre detected
PRJ000914-AS091	Level 2, Internal, Medical Imaging, Corridor to Short Stay, Above ceiling, Duct mastic	0.09g	Painted, grey rubbery mastic	No asbestos detected Organic fibre detected
PRJ000914-AS092	Level 1, Internal, Ward H1, Entrance corridor, Fire door core	0.13g	Beige fibrous mica cement-like insulation board	No asbestos detected Organic fibre detected
PRJ000914-AS093	Level 1, Internal, Circulation Space, Lift Lobby adjacent Ward H1, Brown vinyl floor covering	0.37g	A) Black and brown flexible vitreous fibrous vinyl tile B) Amber adhesive and grey cement material	A) No asbestos detected Synthetic mineral fibre detected B) No asbestos detected Organic fibre detected (Note 1)
PRJ000914-AS094	Level 4, Internal, Plant rooms, Lift motor room 5, lift motor 9, brake pads	0.01g	Black bituminous fibrous material	No asbestos detected Organic fibre detected
PRJ000914-AS095	Level 4, External, Roof plant room, walls of plant room	0.15g	Painted, beige fibre cement material	No asbestos detected Organic fibre detected
PRJ000914-AS096	Level 4, External, Roof, panels beneath roof sheets	1.02g	Brown cement material	No asbestos detected Organic fibre detected
PRJ000914-AS097	Level 4, External, Roof, mastic to AHU ducts and vents	0.33g	Grey soft rubbery mastic	No asbestos detected Organic fibre detected
PRJ000914-AS098	Level 4, External, Roof, loose panels beneath plant	1.11g	Beige cement material	No asbestos detected Organic fibre detected
PRJ000914-AS099	Level 4, External, Roof, waterproof membrane	0.06g	Painted, white vitreous fibrous membrane-like material	No asbestos detected Synthetic mineral fibre detected

Certificate of Analysis Asbestos Bulk Identification Report				
Sample No.	Sample Location	Size (mm) / Weight (g)	Sample Description	Analytical Result
PRJ000914-AS100	Level 4, Internal, Roof access stairwell, loose panels	0.97g	Painted, beige fibre cement material	No asbestos detected Organic fibre detected

- Shaded row indicates positive result for asbestos

Note:

1 Sample was sub-sampled (A & B) in order to accurately report the analytical results representative of the entire samples, as per AS4964-2004.

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CERTIFICATE OF ANALYSIS 295968

Client Details

Client	Property Risk Australia Pty Ltd
Attention	Liam Naughton, James Stewart
Address	PO BOX 95, Mascot, NSW, 1460

Sample Details

Your Reference	**PRJ000914-BSA, John Hunter Hospital - Multiplex**
Number of Samples	18 Paint, 6 Dust
Date samples received	19/05/2022
Date completed instructions received	19/05/2022

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	26/05/2022
Date of Issue	26/05/2022

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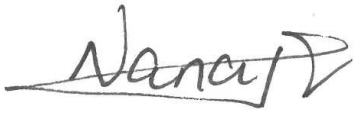
Results Approved By
Giovanni Agosti, Group Technical Manager

Authorised By



Nancy Zhang, Laboratory Manager

Lead in Paint						
Our Reference		295968-1	295968-2	295968-3	295968-4	295968-5
Your Reference	UNITS	PRJ000914_LCP 001	PRJ000914_LCP 002	PRJ000914_LCP 003	PRJ000914_LCP 004	PRJ000914_LCP 005
Date Sampled		16/05/2022	16/05/2022	16/05/2022	16/05/2022	16/05/2022
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Lead in paint	%w/w	<0.005	<0.005	0.052	<0.005	<0.005

Lead in Paint						
Our Reference		295968-6	295968-7	295968-8	295968-9	295968-10
Your Reference	UNITS	PRJ000914_LCP 006	PRJ000914_LCP 007	PRJ000914_LCP 008	PRJ000914_LCP 009	PRJ000914_LCP 010
Date Sampled		16/05/2022	17/05/2022	17/05/2022	17/05/2022	17/05/2022
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Lead in paint	%w/w	<0.005	0.15	<0.005	<0.005	<0.005

Lead in Paint						
Our Reference		295968-11	295968-12	295968-13	295968-14	295968-15
Your Reference	UNITS	PRJ000914_LCP 011	PRJ000914_LCP 012	PRJ000914_LCP 013	PRJ000914_LCP 014	PRJ000914_LCP 015
Date Sampled		17/05/2022	17/05/2022	18/05/2022	18/05/2022	18/05/2022
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022	23/05/2022	23/05/2022
Lead in paint	%w/w	<0.005	<0.005	0.13	0.076	0.007

Lead in Paint				
Our Reference		295968-16	295968-17	295968-18
Your Reference	UNITS	PRJ000914_LCP 016	PRJ000914_LCP 017	PRJ000914_LCP 018
Date Sampled		18/05/2022	18/05/2022	18/05/2022
Type of sample		Paint	Paint	Paint
Date prepared	-	23/05/2022	23/05/2022	23/05/2022
Date analysed	-	23/05/2022	23/05/2022	23/05/2022
Lead in paint	%w/w	0.10	<0.005	0.12

Lead (dust)						
Our Reference		295968-19	295968-20	295968-21	295968-22	295968-23
Your Reference	UNITS	PRJ000914_LCD 001	PRJ000914_LCD 002	PRJ000914_LCD 003	PRJ000914_LCD 004	PRJ000914_LCD 005
Date Sampled		17/05/2022	18/05/2022	18/05/2022	18/05/2022	18/05/2022
Type of sample		Dust	Dust	Dust	Dust	Dust
Date prepared	-	25/05/2022	25/05/2022	25/05/2022	25/05/2022	25/05/2022
Date analysed	-	26/05/2022	26/05/2022	26/05/2022	26/05/2022	26/05/2022
Lead	mg/kg	74	41	27	260	30

Lead (dust)		
Our Reference		295968-24
Your Reference	UNITS	PRJ000914_LCD 006
Date Sampled		18/05/2022
Type of sample		Dust
Date prepared	-	25/05/2022
Date analysed	-	26/05/2022
Lead	mg/kg	94

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

QUALITY CONTROL: Lead in Paint						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			23/05/2022	[NT]	[NT]	[NT]	[NT]	23/05/2022	[NT]
Date analysed	-			23/05/2022	[NT]	[NT]	[NT]	[NT]	23/05/2022	[NT]
Lead in paint	%w/w	0.005	Metals-020/021/022	<0.005	[NT]	[NT]	[NT]	[NT]	95	[NT]

QUALITY CONTROL: Lead (dust)						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			25/05/2022	[NT]	[NT]	[NT]	[NT]	25/05/2022	[NT]
Date analysed	-			26/05/2022	[NT]	[NT]	[NT]	[NT]	26/05/2022	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]

Result Definitions

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

Quality Control Definitions

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

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

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

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

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

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

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

Report Comments

Acid Extractable Metals in Paint: Minimal sample was supplied for samples #7 & 14(<0.01g).

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www.envirolab.com.au

CERTIFICATE OF ANALYSIS 296494

Client Details

Client	Property Risk Australia Pty Ltd
Attention	James Stewart
Address	PO BOX 95, Mascot, NSW, 1460

Sample Details

Your Reference	**PRJ000914, John Hunter Hospital - Multiplex**
Number of Samples	14 Paint, 2 Dust
Date samples received	26/05/2022
Date completed instructions received	26/05/2022

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.

Report Details

Date results requested by	02/06/2022
Date of Issue	02/06/2022

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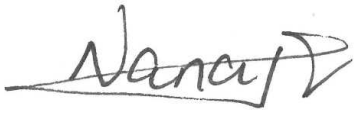
Results Approved By
Giovanni Agosti, Group Technical Manager
Hannah Nguyen, Metals Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

Lead in Paint						
Our Reference		296494-1	296494-2	296494-3	296494-4	296494-5
Your Reference	UNITS	PRJ000914_LCP 019	PRJ000914_LCP 020	PRJ000914_LCP 021	PRJ000914_LCP 022	PRJ000914_LCP 023
Date Sampled		24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	02/06/2022	02/06/2022	02/06/2022	02/06/2022	02/06/2022
Date analysed	-	02/06/2022	02/06/2022	02/06/2022	02/06/2022	02/06/2022
Lead in paint	%w/w	<0.005	0.16	0.009	0.04	0.098

Lead in Paint						
Our Reference		296494-6	296494-7	296494-8	296494-9	296494-10
Your Reference	UNITS	PRJ000914_LCP 024	PRJ000914_LCP 025	PRJ000914_LCP 026	PRJ000914_LCP 027	PRJ000914_LCP 028
Date Sampled		24/05/2022	24/05/2022	24/05/2022	24/05/2022	24/05/2022
Type of sample		Paint	Paint	Paint	Paint	Paint
Date prepared	-	02/06/2022	02/06/2022	02/06/2022	02/06/2022	02/06/2022
Date analysed	-	02/06/2022	02/06/2022	02/06/2022	02/06/2022	02/06/2022
Lead in paint	%w/w	0.01	0.15	0.03	0.16	<0.005

Lead in Paint					
Our Reference		296494-11	296494-12	296494-13	296494-14
Your Reference	UNITS	PRJ000914_LCP 029	PRJ000914_LCP 030	PRJ000914_LCP 031	PRJ000914_LCP 032
Date Sampled		24/05/2022	24/05/2022	24/05/2022	24/05/2022
Type of sample		Paint	Paint	Paint	Paint
Date prepared	-	02/06/2022	02/06/2022	02/06/2022	02/06/2022
Date analysed	-	02/06/2022	02/06/2022	02/06/2022	02/06/2022
Lead in paint	%w/w	<0.005	<0.005	<0.005	2.2

Lead (dust)			
Our Reference		296494-15	296494-16
Your Reference	UNITS	PRJ000914_LCD-007	PRJ000914_LCD-008
Date Sampled		24/05/2022	24/05/2022
Type of sample		Dust	Dust
Date prepared	-	02/06/2022	02/06/2022
Date analysed	-	02/06/2022	02/06/2022
Lead	mg/kg	100	34

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

QUALITY CONTROL: Lead in Paint						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-3	[NT]
Date prepared	-			02/06/2022	13	02/06/2022	02/06/2022		02/06/2022	[NT]
Date analysed	-			02/06/2022	13	02/06/2022	02/06/2022		02/06/2022	[NT]
Lead in paint	%w/w	0.005	Metals-020/021/022	<0.005	13	<0.005	<0.005	0	95	[NT]

QUALITY CONTROL: Lead (dust)						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			02/06/2022	[NT]	[NT]	[NT]	[NT]	02/06/2022	[NT]
Date analysed	-			02/06/2022	[NT]	[NT]	[NT]	[NT]	02/06/2022	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]

Result Definitions

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

Quality Control Definitions

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

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

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

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

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

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

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

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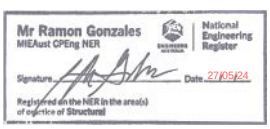
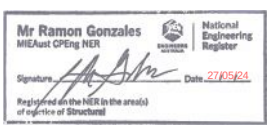
Appendix B – Service Disconnection Signoffs



Appendix C – Engineer Certificates and Instructions



Appendix D – Permits by Authorities

Copy of demolition permit to be placed on noticeboard