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SIRIUS DEVELOPMENTS PTY LTD

Hazardous Materials Survey

2-60 Cumberland St, The Rocks NSW

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DRAFT	DRAFT	12 June 2020	-
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Executive Summary

Sirius Developments Pty Ltd engaged EI Australia (EI) to conduct a Hazardous Materials Survey for the property located at 2-60 Cumberland St, The Rocks NSW (herein referred to as 'the site').

The purpose of this Hazardous Materials Survey is to present the findings of a qualitative risk assessment of the hazardous building materials located on the site. The site inspection was undertaken between 19 May and 21 May 2020.

This report has been developed to assist Sirius Developments Pty Ltd with the preparation for the redevelopment of the site. EI understand that proposed redevelopment of the site shall involve the refurbishment of existing structures.

Key Findings

The overall status of each hazardous material type is tabulated below.

Site Name	ACM (friable)	ACM (Non-friable)	SMF	LBP	PCBs
36 Cumberland Street, The Rocks[1]	Yes	Yes	Yes	No	No
38 Cumberland Street, The Rocks[1]	Yes	Yes	Yes	No	No
40 Cumberland Street, The Rocks[1]	Yes	Yes	Yes	No	No
42 Cumberland Street, The Rocks[1]	No	Yes	No	No	No
44 Cumberland Street, The Rocks[1]	Yes	Yes	Yes	Yes	Yes
46 Cumberland Street, The Rocks[1]	No	Yes	Yes	Yes	No
48 Cumberland Street, The Rocks[1]	Yes	Yes	Yes	No	No
50 Cumberland Street, The Rocks[1]	No	Yes	Yes	No	No

Note 1 Hazardous materials may be present within any inaccessible area stated in the register in **Appendix A**.

All identified hazardous building materials were ranked ***Priority 3 or Priority 4*** (i.e. stable and posing negligible health risk under present conditions). No immediate remedial action was deemed necessary. Refer to **Appendix A** for the formal Hazardous Materials Register.

1. Introduction

1.1 Background and Purpose

EI Australia (EI) was engaged by Sirius Developments Pty Ltd to conduct a Hazardous Materials Survey (HMS) for the site located at 2-60 Cumberland St, The Rocks NSW.

EI understand that proposed redevelopment of the site shall involve refurbishment of existing structures. As such, a HMS is required as part of a Development Application (DA) submission to Council prior to refurbishment works.

This report documents the findings of the HMS performed by EI, which involved inspection of the building on site for the presence of hazardous materials, sampling of potential hazardous materials, and subsequent laboratory analysis for the relevant hazardous substances. In addition, this report provides recommendations for the safe management of hazardous materials during refurbishment works.

1.2 Scope of Works

The aim of the HMS was to:

- Ascertain whether the buildings on site contained hazardous material(s), including;
  - Asbestos-containing materials (ACM);
  - Synthetic mineral fibre (SMF) materials;
  - Polychlorinated biphenyls (PCB) containing materials;
  - Lead-based paint systems (LBP);
- Undertake a qualitative risk assessment of the hazardous materials contained within the buildings;
- Develop control strategies for the ongoing management of hazardous materials contained within the buildings;
- Identify and provide recommendations where remedial works are needed; and
- Prepare a report with the findings of the inspection, including the hazardous materials register and recommendations for the ongoing management or remedial works.

2. Site Description

2.1 Property Identification and Location

The site identification details and associated information are presented in **Table 2-1.**

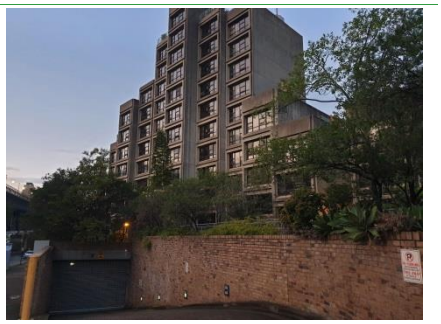
Table 2-1 Site Identification and Location

Attribute	Description
Street Address	2-60 Cumberland St, The Rocks NSW
Location Description	Northern portion of the Sydney CBD, the block is bound by George St (north), Cumberland St (west), commercial and residential properties (east & south).
Site Coordinates	Northeast corner of site (GDA2020-MGA56) Easting: 334249.441, Northing: 6252238.59 (Source: http://maps.six.nsw.gov.au)
Site Area	3,664m^2

2.2 Building Descriptions

A brief description of each building/structure inspected is located in **Table 2-2**.

Table 2-2 Building Descriptions

Description	
The property located at 2-60 Cumberland St, The Rocks NSW comprises an existing residential apartment building that ranges in height from north to south. Each floor contains a number of residential units, with common areas on the ground and 10th floor. The building has a concrete roof and external walls, brick and concrete internal walls, concrete and asbestos cement ceilings with concrete floors.	

3. General Methodology

The survey was conducted to identify the presence and condition of hazardous building materials within the site. For the purpose of this survey, hazardous building materials included:

- Asbestos containing materials (ACMs);
- Lead based paints (LBPs) applied to building surfaces;
- Synthetic Mineral Fibre (SMF) insulation materials; and
- Fluorescent light capacitor fittings, containing polychlorinated biphenyls (PCBs).

The scope of the survey was limited to inspection of the accessible building construction materials, including finishes and operational services, with the collection of representative samples suspected of containing a hazardous substance (listed above), where it was permissible to do so.

Due to the destructive nature of the sampling process or access constraints, it is not possible to collect samples of all (suspected) materials. Where it was not possible to collect a sample, the inspector used their professional experience to make a judgement on the status of the material, or area, concerned. Where the inspector believed the material could contain asbestos, LBP, SMF and/or PCB, this was recorded in the survey report and the corresponding material should be treated as hazardous.

3.1 Asbestos

This component of the survey was carried out in accordance with the guidelines documented in the SafeWork NSW (2019) *How to Manage and Control Asbestos in the Workplace* and SafeWork NSW (2019) *How to Safely Remove Asbestos*. Below are definitions of the two forms of asbestos.

Non-friable asbestos material

Non-friable (bonded) asbestos is any material that contains asbestos in a bonded matrix. It may consist of Portland cement or various resin/binders and cannot be crushed by hand when dry.

Friable asbestos material

Friable asbestos is any material that contains asbestos and is in the form of a powder or can be crumbled, pulverized or reduced to powder by hand pressure when dry.

Samples of suspected ACMs were laboratory analysed for their asbestos content (presence / absence), in accordance with Australian Standard AS4964-2004 *Method for the Qualitative Identification of Asbestos in Bulk Samples*. The reporting limit of the method was 0.1 g/kg.

3.2 Lead in Paint

Painted surfaces were sampled and laboratory analysed for their lead (Pb) content. The sampling program was representative of the various types of paints found within the site, concentrating on areas where LBPs may have been used (e.g. exterior gloss paints, window and door architraves, skirting boards, etc.).

Australian Standard AS 4361.2-2017 *Guide to Lead Paint Management, Part 2: Lead Paint in Residential, Public and Commercial Buildings* defines LBP as a paint film or component coat of a paint system in which the lead content (calculated as lead metal) is in excess of 0.1% by weight of the dry film, as determined by laboratory testing. The NSW WHS Regulation 2017 currently defines a lead process as works on paint containing more than 1.0% by dry weight of lead.

3.3 Synthetic Mineral Fibres (SMF)

This component of the survey was carried out in accordance with the guidelines documented in the SafeWork Australia *Code of Practice for the Safe Use of Synthetic Mineral Fibres* [NOHSC: 2006 (1990)]. This code broadly identifies SMF materials found or suspected of being present during the survey based on a visual assessment.

3.4 Polychlorinated Biphenyls (PCBs)

Where safe access was gained, detailed information of capacitors in light fittings and other electrical equipment were noted for cross-referencing with the Australian and New Zealand Environmental and Conservation Council (ANZECC, 1997) *Identification of PCB Containing Capacitors Information Booklet*. This document defines PCB materials and wastes as follows:

<2 mg/kg	- PCB free.
2 mg/kg - <50 mg/kg	- Non-Scheduled PCB material or waste.
>50 mg/kg	- Scheduled PCB material or waste.
>100,000 mg/kg (10%)	- Concentrated PCB material

Due to the inherent hazard in accessing electrical components, or other reasons such as height restrictions, immovable equipment and furniture, some light fittings may not be safely accessed. In these instances, comment was made on the likelihood of PCB-containing materials, based upon age and appearance.

4. Risk Assessment

The building located at 2-60 Cumberland St, The Rocks NSW was the subject of a Hazardous Materials Survey . The Hazardous Materials Register, presented in **Appendix A**, assesses the risks associated with each identified hazardous material. In order to assess the health risks associated with asbestos, LBP, SMF and PCBs the following must be considered:

- Product type;
- Friability of the material;
- Condition;
- Accessibility requirements for building and/or maintenance; and
- Exposed surface area;
- Surface treatment (if any).

The purpose of the material risk assessment is to establish the relative risk posed by specific hazardous building materials identified in this assessment. The following risk factors are defined to assist in determining the relative health risk posed by each item.

4.1 Friability

The friability of a material describes the ease by which the material can be crumbled, which in turn, can increase the release of fibres into the air. Therefore, friability is only applicable to asbestos and SMF.

- **Friable asbestos** can be crumbled, pulverised, or reduced to powder by hand pressure, which makes it more dangerous than non-friable asbestos.
- **Non-friable asbestos** is typically comprised of asbestos fibres tightly bound in a non-asbestos matrix. If accidentally damaged or broken these ACMs may release fibres initially but will not continue to do so.
- **Bonded SMF** describes a synthetic fibrous material which has a specific designed shape and exists within a stable manufactured product.
- **Un-bonded SMF** is a loosely packed synthetic fibrous material which has no adhesive or cementitious binding properties.
- **Friable lead based paints** exhibit signs of severe deterioration and crumbled, pulverised, or reduced to powder by hand pressure.
- **Non-friable lead based paints** have remained adhered to the surface and are not easily removed.

4.2 Condition

The condition of the hazardous building materials identified during the assessment is reported as being **good**, **fair** or **poor**.

- **Good** refers to a material that is in sound condition with no or very minor damage or deterioration.
- **Fair** refers to a material that is generally in a sound condition, with some areas of damage or deterioration.
- **Poor** refers to a material that is extensively damaged or deteriorated.

4.3 Accessibility

- **Regular:** in an occupied space of the building and accessible to all personnel using/entering the building.
- **Occasional:** buildings or rooms that are used infrequently.
- **Maintenance Only:** accessible to maintenance personnel only.

4.4 Priority Ratings

The risk elements above are used to rate the overall health risk posed by the presence of the hazardous materials:

4.4.1 Asbestos and SMF ratings

Priority 1: Immediate Risk Level

Materials which, due to their present condition and location, present an immediate health risk. The material and area surrounding should be isolated from personnel with remedial actions recommended to be undertaken at the earliest practicable time.

Priority 2: Elevated Risk Level

Damaged or unstable materials which present an elevated health risk if disturbed to personnel within the vicinity, and have potential for contamination to be spread to other areas. The material should be stabilised immediately, with remedial actions considered for the material.

Priority 3: Low Risk Level

Stable material that have minor areas of damage requiring remedial action or is likely to be subject to damage or to degrade due environmental conditions. It is recommended that maintenance work be performed to stabilise and repair damaged areas. Controls should be implemented to protect these materials from further damage or degrading factors.

Priority 4: Negligible Risk Level

Stable material that presents a negligible health risk unless damaged. These materials should be maintained in good condition. They should be reassessed prior to any works that will impact the material.

Inaccessible:

The location was not accessed during the survey and a priority rating could not be applied. Once a location is accessed, the priority rating should be reassessed prior to any works at will be undertaken in this location.

4.4.2 Lead-based Paint and Polychlorinated Biphenyls

Priority 1: Immediate Risk Level

Materials which, due to their present condition and location, present an immediate health risk. The material and area surrounding should be isolated from personnel with remedial actions recommended to be undertaken at the earliest practicable time.

Priority 2: Potential Risk Level

Damaged or unstable materials which present an elevated health risk if disturbed to personnel within the vicinity, and have the potential for contamination to be spread to other areas. The material should be stabilised to immediately, with remedial actions considered for the material.

Priority 3: Negligible Risk Level

Stable material that presents a negligible health risk unless damaged. These materials should be maintained in good condition. They should be reassessed prior to any works that will impact the material.

Inaccessible:

The location was not accessed during the survey and a priority rating could not be applied. Once a location is accessed, the priority rating should be reassessed prior to any works at will be undertaken in this location.

5. Conclusion

Based on the inspection of the structural materials making up the building designated for refurbishment, the identified hazardous materials are indicated in **Table 5-1**. Handling recommendations and material specific work plans for the relevant hazardous materials are outlined in **Section 6**. Photographs of the identified materials are presented in the register in **Appendix A**.

Table 5-1 Summary Hazardous Materials

Building	Location	Material Description
36 Cumberland Street, The Rocks	**Internal, wall cavities**	**Possible hazardous materials**
	Asbestos	
	Basement, electrical switch room	Electrical backing board
	Basement, northern end, sliding fire door “Padde” (inner core)	Fire door (inner core)
	Basement level, outside unit 1, water meter cupboard, redundant gaskets	Gaskets
	Unit 1, bathroom ceiling	Asbestos cement sheeting
	Outside unit 2, water meter cupboard, redundant gaskets	Gaskets
	Unit 2, bathroom, ceiling	Asbestos cement sheeting
	Unit 3, bathroom, ceiling	Asbestos cement sheeting
	Unit 4, bathroom, ceiling	Asbestos cement sheeting
	Unit 5, bathroom, ceiling	Asbestos cement sheeting
	Unit 6, bathroom, ceiling	Asbestos cement sheeting
	Unit 6, balcony, between pebble surface and wall	Sealant
	Unit 7, bathroom, ceiling	Asbestos cement sheeting
	Unit 8, rooftop terrace, around door (black)	Membrane
	Outside Unit 9, water meter, redundant gaskets	Gaskets
	Unit 9, rooftop terrace door, sealant between frame and wall (brown)	Sealant
	Internal window frame to pane putty	Sealant
	SMF	
	All floors, water risers, insulation to hot water pipes	Foil backed SMF insulation

Building	Location	Material Description
38 Cumberland Street, The Rocks	**Internal, wall cavities**	**Possible hazardous materials**
	Asbestos	
	Sub-basement, electrical switch room	Electrical backing board
	Common area, outside unit 1, water meter riser, packing to frame	Asbestos cement sheeting
	Common area, outside unit 1, water meter riser, redundant gaskets	Gasket
	Unit 1, bathroom	Asbestos cement sheeting
	Common area, outside unit 2, water meter riser, packing to frame	Asbestos cement sheeting
	Unit 2, bathroom ceiling	Asbestos cement sheeting
	Common area, outside unit 3, water meter riser, packing to frame	Asbestos cement sheeting
	Common area, outside unit 3, water meter riser, redundant gaskets	Gasket
	Unit 3 bathroom	Asbestos cement sheeting
	Unit 4, bathroom	Asbestos cement sheeting
	Unit 4, outdoor area, waterproofing to pebble surface and concrete wall	Sealant
	Common area, outside unit 5, water meter risers, packing to frame and concrete walls	Asbestos cement sheeting
	Unit 5 bathroom ceiling	Asbestos cement sheeting
	Unit 6, bathroom, ceiling	Asbestos cement sheeting
	Common area, outside unit 7, water meter risers, redundant gaskets	Gaskets
	Unit 7, rooftop terrace door, sealant between frame and wall	Sealant
	Unit 8, rooftop terrace door, sealant between frame and wall	Sealant
	SMF	
	All floors, water risers, insulation to hot water pipes	Foil backed SMF insulation
40 Cumberland Street, The Rocks	**Internal, wall cavities**	**Possible hazardous materials**
	Asbestos	
	Sub-basement electrical switch room	Electrical backing board
	External, sealant between wall and brick path	Sealant
	Common are, outside unit 1, water meter riser, redundant gaskets	Gaskets

Building	Location	Material Description
40 Cumberland Street, The Rocks	Unit 1, bathroom ceiling	Asbestos cement sheeting
	Unit 2, bathroom	Asbestos cement sheeting
	Common are, outside unit 3, water meter riser, redundant gaskets	Gaskets
	Common are, outside unit 3, water meter riser, packing between frame and wall + redundant material	Asbestos cement sheeting
	Unit 1, bathroom ceiling	Asbestos cement sheeting
	Unit 2, bathroom	Asbestos cement sheeting
	Common are, outside unit 3, water meter riser, redundant gaskets	Gaskets
	Common are, outside unit 3, water meter riser, packing between frame and wall + redundant material	Asbestos cement sheeting
	Unit 3 bathroom, ceiling	Asbestos cement sheeting
	Unit 4 bathroom, ceiling	Asbestos cement sheeting
	Common are, outside unit 5, water meter riser, redundant gaskets	Gaskets
	Unit 5 rooftop terrace access door, between frame and wall	Sealant
	Unit 6 bathroom, ceiling	Asbestos cement sheeting
	SMF	
	All floors, water risers, insulation to hot water pipes	Foil backed SMF insulation
	Unit 6 roof terrace, waterproofing under pebble coating	Bituminous membrane
42 Cumberland Street, The Rocks	**Internal, wall cavities**	**Possible hazardous materials**
	Asbestos	
	Bathroom, ceiling	Asbestos cement sheeting
	Water risers, insulation to hot water pipes	Foil backed SMF insulation
44 Cumberland Street, The Rocks	**Internal, wall cavities**	**Possible hazardous materials**
	Asbestos	
	Car park, kitchenette, infill panel behind water meter	Asbestos cement sheeting
	External window mastic	Sealant
	All floors, fire hydrant cupboard, penetration sealant around hydrant pipes	Woven asbestos rope

Building	Location	Material Description
44 Cumberland Street, The Rocks	All floors, fire hydrant cupboards, floor surfaces dusts	Asbestos containing dusts
	All residential floors, electrical main switchboard	Electrical backing board
	Ground floor, adjacent to main door residual material to north wall	Sealant
	Ground floor, basement access stairs “Padde”	Fire door
	Ground floor, female amenities, door (2009 tag stuck on)	Fire door
	First floor, unit 11,bathroom, ceiling	Asbestos cement sheeting
	First floor, western fire stairs, door “Padde”	Fire door
	First floor, unit 12, bathroom, ceiling	Asbestos cement sheeting
	First floor, unit 13, bathroom, ceiling	Asbestos cement sheeting
	Second floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting
	Second floor, unit 21 bathroom, ceiling	Asbestos cement sheeting
	Second floor, unit 22, bathroom, ceiling	Asbestos cement sheeting
	Second floor, unit 23, bathroom ceiling	Asbestos cement sheeting
	Second floor, unit 24 bathroom ceiling	Asbestos cement sheeting
	Second floor, unit 25, bathroom ceiling	Asbestos cement sheeting
	Second floor, unit 26, bathroom, ceiling	Asbestos cement sheeting
	Third floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting
	Third floor, unit 31, entry door “Padde”	Fire door
	Third floor, unit 31, bathroom ceiling	Asbestos cement sheeting
	Third floor, unit 32, bathroom, ceiling	Asbestos cement sheeting
	Third floor, unit 33, bathroom, ceiling	Asbestos cement sheeting
	Third floor, unit 34, bathroom, ceiling	Asbestos cement sheeting
	Third floor, unit 35, bathroom ceiling	Asbestos cement sheeting
	Third floor, unit 36, bathroom ceiling	Asbestos cement sheeting
	Fourth floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting
	Fourth floor, Fourth floor, unit 41, bathroom, ceiling	Asbestos cement sheeting

Building	Location	Material Description
44 Cumberland Street, The Rocks	Fourth floor, Fourth floor, unit 42, bathroom, ceiling	Asbestos cement sheeting
	Fourth floor, Fourth floor, unit 43 bathroom, ceiling	Asbestos cement sheeting
	Fourth floor, unit 44, bathroom ceiling	Asbestos cement sheeting
	Fourth floor, unit 45, bathroom ceiling	Asbestos cement sheeting
	Fourth floor, unit 46, bathroom ceiling	Asbestos cement sheeting
	Fifth floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting
	Fifth floor, unit 51, bathroom ceiling	Asbestos cement sheeting
	Fifth floor, unit 52, bathroom, ceiling	Asbestos cement sheeting
	Fifth floor, unit 53, bathroom, ceiling	Asbestos cement sheeting
	Fifth floor, unit 54, bathroom ceiling	Asbestos cement sheeting
	Fifth floor, unit 55, bathroom ceiling	Asbestos cement sheeting
	Fifth floor, unit 55, balcony door, frame to wall	Sealant
	Fifth floor, unit 56, bathroom ceiling	Asbestos cement sheeting
	Sixth floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting
	Sixth floor, unit 61, bathroom ceiling	Asbestos cement sheeting
	Sixth floor, unit 62, bathroom, ceiling	Asbestos cement sheeting
	Sixth floor, unit 63, bathroom ceiling	Asbestos cement sheeting
	Sixth floor, southern fire door “Padde”	Fire door
	Sixth floor, unit 64, bathroom, ceiling	Asbestos cement sheeting
	Sixth floor, unit 65, bathroom, ceiling	Asbestos cement sheeting
	Sixth floor, unit 66, bathroom, ceiling	Asbestos cement sheeting
	Seventh floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting
	Seventh floor, unit 71, bathroom, ceiling	Asbestos cement sheeting
	Seventh floor, unit 72, bathroom, ceiling	Asbestos cement sheeting
	Seventh floor, unit 73, bathroom, ceiling	Asbestos cement sheeting
	Seventh floor, unit 74, bathroom, ceiling	Asbestos cement sheeting

Building	Location	Material Description
44 Cumberland Street, The Rocks	Seventh floor, unit 75, bathroom, ceiling	Asbestos cement sheeting
	Eight floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting
	Eighth floor, unit 81, bathroom, ceiling	Asbestos cement sheeting
	Eighth floor, unit 82, bathroom, ceiling	Asbestos cement sheeting
	Eighth floor, unit 83, bathroom, ceiling	Asbestos cement sheeting
	Ninth floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting
	Ninth floor, unit 91, bathroom, ceiling	Asbestos cement sheeting
	Ninth floor, unit 92, bathroom, ceiling	Asbestos cement sheeting
	Ninth floor, unit 93, bathroom, ceiling	Asbestos cement sheeting
	Tenth floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting
	Tenth floor, common area, water meter riser, packing between metal frame and brick walls, redundant gasket (red)	Gasket
	Tenth floor, hydrant riser, packing to door frames	Asbestos cement sheeting
	Tenth floor, unit 101, bathroom ceiling	Asbestos cement sheeting
	Tenth floor, unit 102, bathroom, ceiling	Asbestos cement sheeting
	Tenth floor, unit 102, bathroom, ceiling	Asbestos cement sheeting
	Eleventh floor, hydrant pump room, high level access hatches to void “Padde”	Fire door
	Car park, main switch room, door ”Padde”	Fire door
	Car park, waste penetrations, randomly around areas, infill panel	Asbestos cement sheeting
	SMF	
	Car park, hot water pipes (metal clad)	Foil backed SMF insulation
	All floors, water risers, insulation to hot water pipes	Foil backed SMF insulation
	Ground floor, fire panel cupboard, wall cavity, damp proof course	Membrane
	Eleventh floor, lift motor room, lift 2, brakes	Brake pads

Building	Location	Material Description
44 Cumberland Street, The Rocks	Eleventh floor, lift motor room, lift 1, brakes	Brake pads
	Eleventh floor, exhaust insulation	Woven SMF material
	Paints	
	External, balustrades and metal stair rails	Olive Green Paint
	PCBs	
	3rd floor, unit 33, bathroom, ceiling single tube fluorescent light fitting	Ducon, paper capacitor, 3.5uf, apm235r
46 Cumberland Street, The Rocks	**Internal, wall cavities**	**Possible hazardous materials**
	Asbestos	
	Bathroom, ceiling	Asbestos cement sheeting
	Water risers, insulation to hot water pipes	Foil backed SMF insulation
48 Cumberland Street, The Rocks	**Internal, wall cavities**	**Possible hazardous materials**
	Asbestos	
	Sub-basement, electrical switch room	Electrical backing board
	Sub-basement, drying room, door	Fire door
	Common areas, outside unit 1, water meter riser, redundant gaskets	Gasket
	Unit 1, bathroom ceiling	Asbestos cement sheeting
	Common areas, outside unit 2, water meter riser, redundant gaskets	Gasket
	Unit 2, bathroom	Asbestos cement sheeting
	Unit 2, entry door “Padde”	Fire door
	External, eastern elevation adjacent unit 2 courtyard door, mastic between downpipe and wall	Sealant
	Unit 3, bathroom	Asbestos cement sheeting
	Unit 3, storage cupboard adjacent kitchen, floor	Green geometric vinyl floor sheet
	Unit 3, entry door “Padde”	Fire door
	Common areas, outside unit 4, water meter riser, redundant gaskets	Gasket
	Unit 4, entry door “Padde”	Fire door
	Unit 4 rooftop terrace, mastic to pebble surface and concrete wall	Sealant
	Unit 6, entry door “Padde”	Fire door

Building	Location	Material Description
48 Cumberland Street, The Rocks	Unit 6, bathroom, wall cavity where shaving cupboard was removed.	Asbestos cement sheeting
	Common areas, outside, unit 5, water meter riser, redundant gaskets	Gasket
	Unit 5, entry door “Padde”	Fire door
	SMF	
	All floors, water risers, insulation to hot water pipes	Foil backed SMF insulation
50 Cumberland Street, The Rocks	**Internal, wall cavities**	**Possible hazardous materials**
	SMF	
	Water risers, insulation to hot water pipes	Foil backed SMF insulation

Note 1 Hazardous materials may be present within any inaccessible area stated in the register in **Appendix A**.

6. Recommendations

6.1 Asbestos

Asbestos materials should be removed prior to the commencement of any refurbishment works that may cause their disturbance. The removal of these materials is to be done in accordance with *NSW Work Health and Safety Act* and *Regulations 2017* and the following SafeWork NSW approved codes of practice:

- SafeWork NSW (2019) *How to Manage and Control Asbestos in the Workplace*; and
- SafeWork NSW (2019) *How to Safely Remove Asbestos*

The asbestos removal works require a minimum *Class A* licenced asbestos removal contractor. At the completion of asbestos removal works a clearance certificate is required.

The following recommendations must be observed as minimum requirements during the removal of all ACM.

- The work area should be barricaded and appropriate signage installed.
- The ACM should be sealed or wetted with water.
- ACM should be removed with minimal breakage and where applicable, should be lowered to the ground not dropped.
- Where ACMs are too large to fit into an asbestos labelled waste bag, the ACM should be stacked or placed on a 200µm plastic ground sheet or lined skip bin and not allowed to lie about the site where they may be further broken or crushed by machinery or workers.
- Asbestos waste is to be securely packaged and labelled. Asbestos waste bags are to be double bagged while ACM in polythene sheeting should be double wrapped with adhesive tape applied to the entire length of every overlap to secure materials to minimise the risk of the polythene sheeting tearing or splitting.
- Any dust and/or ACM debris remaining around the removal area should be cleaned up using an approved “H” type HEPA vacuum cleaner.
- All asbestos containing waste is to be disposed at an approved disposal facility (contact local council or SafeWork NSW for nearest asbestos waste facility).

Where asbestos is to be removed, the licenced asbestos removal contractor should prepare an asbestos removal control plan prior to undertaking any removal works.

6.1.1 Friable Asbestos

Friable asbestos was identified in the form of asbestos rope packing to fire hydrant pipe penetrations, asbestos containing dusts in the fire hydrant cupboards, redundant asbestos gaskets and asbestos millboard backing to the green vinyl sheeting. As these materials are in areas that are not regularly accessed they have been allocated a negligible asbestos related health risk.

The friable asbestos fire door cores where exposed have been sealed to reduce the exposure to personnel on site. In their current condition they have been allocated a negligible asbestos related health risk. Prior to any future works these doors are to be removed.

6.1.2 Asbestos Removal Management Plan

A site specific Asbestos Removal Management Plan (ARMP) may be prepared by a Hygienist, or licensed asbestos assessor to document the management measures required to address risk associated with potential exposure to asbestos. The ARMP must include:

- Work area isolation (barrier protection, buffer zone);
- Removal methods (friable/non-friable);
- Contamination control methods (decontamination procedures); and
- Health and safety procedures (respiratory protection).

Asbestos removal works at the site including the disturbance of soils impacted with asbestos must be managed strictly in accordance with the ARMP.

6.1.3 Asbestos Fibre Air Monitoring

There is a requirement to undertake asbestos fibre air monitoring during the removal of the friable asbestos materials on the boundary of the work areas. Asbestos fibre air monitoring is required to be undertaken by a company independent of the demolition and /or asbestos removal company. The asbestos fibre air monitoring should be undertaken by a company that is NATA (National Association of Testing Authorities) accredited.

6.1.4 Management of Asbestos Waste

The transportation and management of asbestos waste must be carried out in accordance with Part 7 of the *Protection of the Environment Operations (Waste) Regulation 2014*, which includes:

- Appropriate packaging, sealing, covering and/or wetting of the waste, as is required for the form of the asbestos contamination (i.e. bonded asbestos, friable asbestos or asbestos-contaminated soil);
- Reporting on transportation of asbestos waste by the transporter to the NSW EPA as required under Part 7, Section 79 of the *Waste Regulation 2014*; and

Disposal to an appropriately licensed (i.e. lawful) premises, with proper advice to the occupier of the premises, while incorporating measures for the prevention of dust generation, in accordance with Part 7, Section 80 of the *Waste Regulation 2014*.

Any ACM removed from the site should be tracked from the time of their removal from the structure until their disposal. Tracking of all ACM should be completed on the EPAs WasteLocate system. This system will require all details of the ACM to be transported, including but not limited to:

- Origin of material;
- Material type;
- Approximate volume; and
- Truck registration number.

Disposal locations will be determined by the remediation contractor. Disposal location, waste disposal documentation (i.e. weighbridge dockets, trip tickets and consignment disposal confirmation) and the above listed information should be provided to the remediation consultant for reporting purposes.

6.1.5 Asbestos Clearance Inspection

Under Clause 473 of the *NSW Work Health and Safety Regulation* 2017, a clearance inspection is required following the removal of any ACM. At the completion of the removal of friable asbestos a licenced asbestos assessor is required to undertake clearance inspections. A clearance inspection is to be carried out and a clearance certificate issued before the area can be re-occupied. The company undertaking the clearance inspection should be independent of the demolition and / or asbestos removal company.

6.2 Lead Paint

Site structures should be managed in accordance with the procedures detailed in the following references:

- Australian Standard AS 4361.2-2017 *Guide to Lead Paint Management, Part 2: Lead* Paint *in Residential, Public and Commercial Buildings*;
- NOHSC (1994a) *National Standard for the Control of Inorganic Lead at Work*; and
- NOHSC (1994b) *National Code of Practice for the Control and Safe Use of Inorganic Lead at Work.*

There are currently no legislative requirements for the general removal of stable lead-containing painted materials for structures remaining *in situ*.

The following recommendations must be observed as a minimum requirement when working with lead paint to reduce the potential for lead dust exposure.

- LBPs on structures otherwise from residential premises, educational or child care institutions are to be removed from all surfaces prior to demolition.
- Lead paint waste arising otherwise from residential premises, educational or child care institutions has been pre-classified as *Hazardous Waste* under the NSW EPA (2014) *Waste Classification Guidelines*.
- All building materials with lead paint are to be disposed as *Hazardous Waste*, unless the lead paint is removed prior to demolition.
- Wear an approved (Australian Standard AS1716) half face respirator or dust mask with a ‘P2’ (dust and fumes) protection rating if working directly with materials coated with lead paint during the demolition works.
- Wear work clothes that do not catch dust or flakes in pockets or cuffs. Consider using disposable overalls.
- Use an industrial vacuum cleaner fitted with High Efficiency Particulate Air (HEPA) filters for dust and debris clean up.
- When working on lead paint surfaces:
  - Use heavy-duty plastic sheeting to seal off work areas and collect debris;
  - Place a plastic drop sheet under the area to be worked upon (ensuring it extends a minimum of two metres from the base of the wall or structure and an extra metre for each storey being worked on (consider height and use more plastic if needed));
  - Fold the edge of the plastic nearest the wall and/or structure and secure it with tape, in order to prevent any dust falling between the edge of the plastic and the wall or structure; and

    - Fold and brace external edges of the plastic drop sheet.

- Wet any lead paint surface to be sanded or cut. Use water sparingly and do not spray water on power tools (e.g. drills). Wet the wall or structure to dampen down for dust control.
- Do not use open flame burners on lead paint.
- At the completion of the works, plastic sheeting used during lead paint removal is to be folded and sealed to ensure the materials are contained within the plastic sheeting.

The *NSW Work Health and Safety Regulation 2017* require that a person conducting a business or undertaking (PCBU) must notify SafeWork NSW of any lead risk work being undertaken. The PCBU must assess each lead process to determine whether lead risk work is being carried out. If a PCBU cannot determine whether lead risk work is being carried out, then the process is taken to include lead risk work until it can be determined that lead risk work is not being undertaken. A notification of lead risk work form must be submitted to SafeWork NSW at least seven days before lead work begins. These forms are available on the SafeWork NSW website and lodgement instructions are listed on the forms.

6.3 Synthetic Mineral Fibres

SMF materials should be removed during any refurbishment works that may cause their disturbance. SMF materials must be handled and removed in accordance with the *NSW Work Health and Safety Regulation 2017* and the SafeWork Australia *Synthetic Mineral Fibres National Standard* (NOHSC:1004) and *National Code of Practice* (NOHSC:2006).

The following guidance documents should be consulted for guidance regarding removal and disposal of SMF:

- *National Standard for the Safe Use of Synthetic Mineral Fibres* [NOHSC:1004 (1990)];
- *National Code of Practice for the Safe Use of Synthetic Mineral Fibres* [NOHSC:2006 (1990)]; and
- *Code of Practice for the Safe Use of Synthetic Mineral Fibres* (NOHSC, 1993).

These documents should be referred to for the disposal SMF materials. Under the EPA (2014) *Waste Classification Guidelines*, “synthetic fibre waste from materials such as fibreglass, polyesters and other plastics, being waste that is packaged securely to prevent dust emissions, but excluding asbestos waste which is a special waste”, is pre-classified as *General Solid Waste (Non Putrescible)*.

6.4 Polychlorinated Biphenyl Capacitors

All metal-cased capacitors, including fluorescent light fittings, should be assumed as containing PCBs. Any leaking PCB-containing capacitors identified should be removed and disposed prior to the commencement of any refurbishment works that may cause their disturbance.

The following recommendations must be observed when removing / handling PCB containing capacitors.

- Small quantities of PCBs are usually found in sealed containers known as capacitors. PCB-containing capacitors are unlikely to pose a health risk unless they become damaged and leak. Care must be taken when handling a damaged capacitor to ensure that spillage does not occur.
- The person handling any (damaged) capacitor should use disposable gloves. Wear gloves that are made of materials that are resistant to PCBs, such as Viton, polyethylene, polyvinyl

alcohol (PVA), polytetrafluoroethylene (PTFE), butyl rubber, nitrile rubber or neoprene. Mid-arm length gauntlets may be required. Do not use gloves made of polyvinyl chloride (PVC) or natural rubber (latex).

- Wear disposable overalls made of Tyvek or materials with similar chemical resistant properties.
- When working with overhead equipment (e.g. fluorescent light fixtures), wear a full face shield and appropriate hair protection.
- Wash any non-disposable contaminated equipment with kerosene and collect the kerosene for disposal as a PCB-contaminated waste.
- PCB-containing equipment (capacitors, ballasts, etc.) is to be placed in a polyethylene bag, which then is to be placed in a sealable metal container. This container must be clearly marked with the details of the contents and must be maintained in good order (that is, no visible signs of damage or corrosion). If some of these materials are leaking, the container should be partially filled with an absorbent material, such as a commercial absorbent, kitty litter or a diatomaceous earth. The plastic wrapped leaking components can then be placed in the container.
- If PCB vapours are suspected (e.g. PCB leaks onto a hot surface in a confined space), wear a suitable respirator. Use a cartridge respirator suitable for chlorinated vapours. It is always prudent to ensure adequate ventilation. NOTE: PCBs do not vaporise readily at room temperature.
- Do not smoke while handling PCB capacitors.
- After handling PCBs, even if gloves were worn, wash hands well in warm, soapy water before eating, drinking, smoking, handling food or drink, or using toilet facilities.

PCB capacitors are to be disposed at a licenced waste facility. If PCB concentration is above the threshold concentration for PCBs scheduled waste (i.e. >50mg/kg), the waste must be also be transported by a suitably licenced contractor. For further details on this, contact the NSW EPA.

7. Statement of Limitations

This report has been prepared by EI Australia (EI) pursuant to EI Australia's Terms and Conditions.

The report is for the sole use by Sirius Developments Pty Ltd. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by other third parties. This report does not purport to provide legal advice. This report is prepared in response to specific instructions from Sirius Developments Pty Ltd.

Unless otherwise stated in this report, the survey evaluates the presence of hazardous materials in/on the building(s) of the identified site, and excludes buried waste materials, contaminated dusts, and soils. The findings presented in this report are the result of a site walkover inspection, sampling, laboratory analysis, interviews with site personnel, and review of any documentation provided to EI. To the best of EI's knowledge, and in view of these limitations, the findings presented in this report represent a reasonable interpretation of the building materials on the site at the time of investigation.

This report relies upon data, surveys, measurements, and/or results taken at, or under, the particular times and conditions specified in this report. Any conclusions or recommendations only apply to the findings at that particular time.

EI is not a professional quantity surveyor (QS) organisation. Any areas, volumes, tonnages or any other quantities noted in this report are indicative estimates only. The services of a professional QS organisation should be engaged if quantities are to be relied upon.

The report should not be separated or reproduced in part, and EI should be retained to assist other professionals who may be affected by the issues addressed in this report to ensure the report is not misused in any way. In the interests of Work Health and Safety, and in the absence of a comprehensive testing program, EI recommends that where there is doubt over the composition of any suspect material, it should be assumed to contain asbestos until verified otherwise by appropriate analysis.

This report must be read in its entirety, and must not be copied, distributed or referred to in part. This report is not intended to be used for the purpose of tendering, preparation of costing or budgets, programming of works, refurbishment works or demolition works, unless expressly stated. The report must not be reproduced without the written approval of EI.

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Inaccessible areas

It is noted that given the constraints of practicable access encountered during the HMS, the following areas were not accessed or inspected:

- Detailed inspection within wall cavities and set ceilings;

- Within those areas accessible only by dismantling equipment;
- Concealed within the building structure;
- Within voids or internal areas of plant, equipment, air-conditioning ducts, etc;
- Energised services, gas, electrical, and pressurised vessels;
- Areas deemed unsafe or hazardous at time of inspection;
- Within totally inaccessible areas such as voids and cavities created and intimately concealed within the building structure. These voids are only accessible during major demolition works; and
- Height restricted areas, including building roof areas.

Should demolition operations entail disturbance of materials in these locations, further investigation and sampling of specific areas should be conducted as part of an asbestos and lead management and abatement program, as per 'AS 2601-2001: The Demolition of Structures', prior to any works proceeding.

Appendix A - Hazardous Materials Register

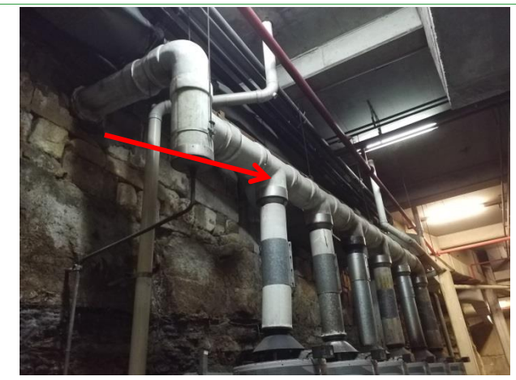
Table A.1 Key and Explanatory Notes to Hazardous Building Material Register

Column Heading	Description
Location	A detailed description of the location of the hazardous building material relevant to this entry.
Material Type	The specific hazardous building material type, e.g. Asbestos: asbestos cement sheet corrugated asbestos cement sheet, vinyl asbestos tiles, etc. SMF: foil backed SMF, compressed SMF ceiling tiles, SMF insulation to upper surface of ceiling, etc. Paint: Beige coloured lead-based paint system. PCB: Metal case capacitor 'Plessey 6.5 µF Type APF 265CR'. ***If inaccessible areas are noted, any of the above material types may be present.***
Friability	If the material can be crushed to a powder by hand pressure.
Sample	Sample Reference number allocated to the sample collected from this asbestos containing material
Results	Laboratory analytical results. Refer to **Appendix B** for laboratory analytical reports.
Quantity	The approximate quantity of hazardous building material relevant to this location. Depending on the nature of the material, the quantity is given as an area (m^2), length (m), number of pieces/units or not determined (ND).
Condition	**Good**: good and stable condition. **Fair**: early signs of deterioration or localised areas of damage. For PCB capacitors this would include evidence of seals deteriorating. **Poor**: the material is in poor condition and remedial action is required, e.g. deteriorated friable asbestos materials, capacitors are leaking, etc. **Unknown**: the area was inaccessible
Accessibility	**Regular**: in the occupied space of the building and accessible to all personnel using/entering the building. **Occasional**: buildings or rooms that are used infrequently. **Maintenance Only**: accessible to maintenance personnel only. **Inaccessible**: the area was not able to be accessed during the inspection
Risk Rating	The allocated priority rating for this entry, refer Section **4.4**. If the location was not accessible the risk rating is not able to be determined and shall be listed as inaccessible.
Recommendations	Recommended actions for demolition works or damaged material.
Photograph	Photograph of location where sample was taken.

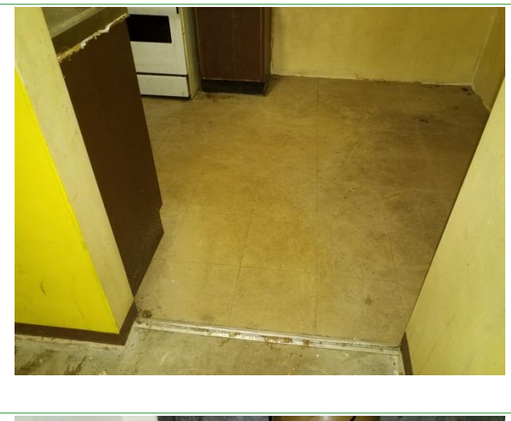
Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Location	Material Type	Friability	Sample	Analysis Result:	Quantity	Condition and Accessibility	Priority	Recommendations/ Comments	Photograph of material
36 Cumberland Street, The Rocks									
Inaccessible									
Internal, wall cavities	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Internal, walls behind ceramic tiles, membranes	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Asbestos									
Basement, electrical switch room	Electrical backing board	Non-friable	Similar to A12	**Assume positive**	1 unit	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Basement, northern end, sliding fire door “Padde” (inner core)	Fire door (inner core)	Friable	Not sampled (inaccessible)	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

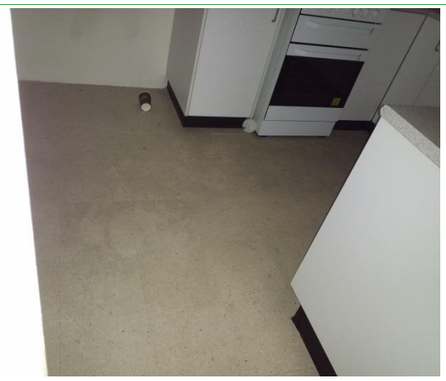
Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Basement, northern end, sliding fire door “Padde” (outer core only)	Fire door (outer core)	Friable	A45	No Asbestos Detected Organic Fibres Detected	NA	NA	NA	NA	
Basement, western side, hot water units, flues (goes through wall to vent outside)	Asbestos cement pipe	Non-friable	A46	**Chrysotile Asbestos Detected** Organic Fibres Detected	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Basement level, outside unit 1, water meter cupboard, redundant gaskets	Gaskets	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 1, bathroom ceiling	Asbestos cement sheeting	Non-friable	A47	**Chrysotile Asbestos Detected** Organic Fibres Detected	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 1, kitchen	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Outside unit 2, water meter cupboard, redundant gaskets	Gaskets	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 2, kitchen	Cream and blue speck vinyl floor tiles	Non-friable	Similar to A29	Assume negative	NA	NA	NA	NA	
Unit 2, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 3, kitchen,	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 3, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 4, kitchen, under new style vinyl sheeting	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	
Unit 4, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 5, kitchen, under new style vinyl	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Unit 5, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
External, eastern elevation, concrete facade, beneath mortar	Sealant	Non-friable	A48	No Asbestos Detected	NA	NA	NA	NA	

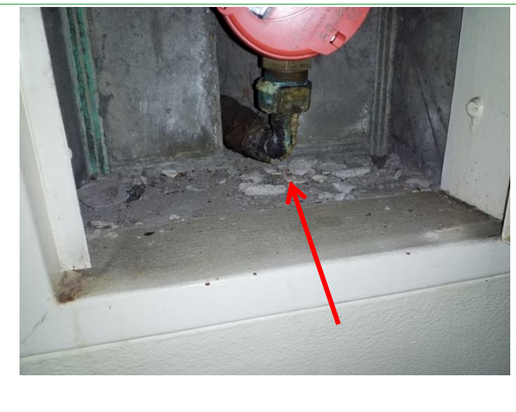
Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 6, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 6, kitchen	Cream vinyl floor tiles	Non-friable	Similar to A16	Visual Inspection Assume negative	NA	NA	NA	NA	
Unit 6, balcony, between pebble surface and wall	Sealant	Non-friable	A49	**Chrysotile Asbestos Detected**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 7, kitchen	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Visual Inspection Assume negative	NA	NA	NA	NA	
Unit 7, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 8, kitchen, beneath new vinyl	Cream vinyl floor tiles	Non-friable	Similar to A16	Visual Inspection Assume negative	NA	NA	NA	NA	
Unit 8, bathroom ceiling	Concrete	NA	Negative	Visual Inspection Assume negative	NA	NA	NA	NA	

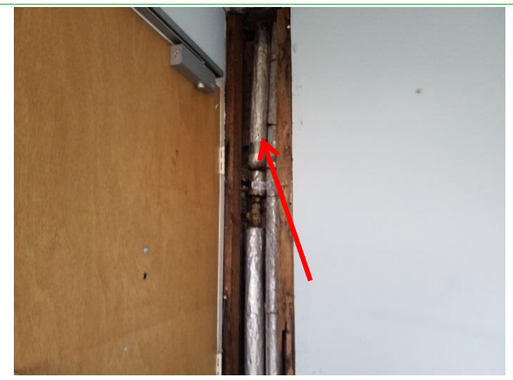
Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 8, rooftop terrace, around door (black)	Membrane	Non-friable	A50	**Chrysotile Asbestos Detected**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Outside Unit 9, water meter, redundant gaskets	Gaskets	NA	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 9, kitchen	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Visual Inspection Assume negative	NA	NA	NA	NA	
Unit 9, barroom ceiling	Concrete	NA	negative	Visual Inspection Assume negative	NA	NA	NA	NA	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 9, rooftop terrace door, sealant between frame and wall (brown)	Sealant	Non-friable	Similar to A52	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Internal window frame to pane putty	Sealant	Non-friable	A51	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

SMF

All floors, water risers, insulation to hot water pipes	Foil backed SMF insulation	Not friable	Not sampled Visual Inspection	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove during demolition works	

Paints

Internal ceilings	Off white	NA	Visual inspection Similar to P07	Assume negative	NA	NA	NA	NA
Internal, walls	Cream Paint	NA	Visual inspection Similar to P03	Assume negative	NA	NA	NA	NA

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

PCBs								
Internal, throughout	Newer style fluorescent light fitting	NA	Visual inspection	Assume negative	NA	NA	NA	NA

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Location	Material Type	Friability	Sample	Analysis Result:	Quantity	Condition and Accessibility	Priority	Recommendations/ Comments	Photograph of material
38 Cumberland Street, The Rocks									
Inaccessible									
Internal, wall cavities	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown** **Inaccessible**	**Inaccessible**	**No access available at time of inspection.** **When areas are accessible, confirm status of hazardous materials.**	
Internal, walls behind ceramic tiles, membranes	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown** **Inaccessible**	**Inaccessible**	**No access available at time of inspection.** **When areas are accessible, confirm status of hazardous materials.**	
Asbestos									
Sub-basement, electrical switch room	Electrical backing board	Non-friable	Similar to A12	**Assume positive**	1 unit	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Common area, outside unit 1, water meter riser, packing to frame	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Common area, outside unit 1, water meter riser, redundant gaskets	Gasket	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 1, kitchen	Grey fleck vinyl floor tiles	Non-friable	Similar to A36	Assume negative	NA	NA	NA	NA	
Unit 1, bathroom	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Common area, outside unit 2, water meter riser, packing to frame	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 2, kitchen	Ceramic tiles	NA	Visual Inspection	Assume negative	NA	NA	NA	NA	
Unit 2, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Common area, outside unit 3, water meter riser, packing to frame	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Common area, outside unit 3, water meter riser, redundant gaskets	Gasket	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 3, kitchen, under new style vinyl sheeting	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Unit 3 bathroom	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 4, kitchen	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	
Unit 4, bathroom	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 4, outdoor area, waterproofing to pebble surface and concrete wall	Sealant	Non-friable	Similar to A54	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

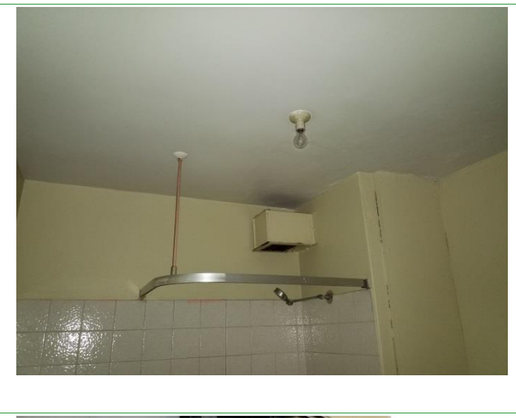
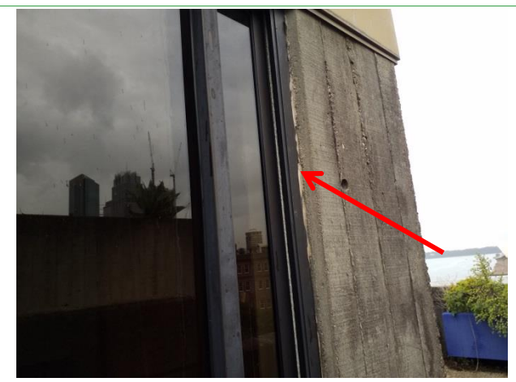
Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Common area, outside unit 5, water meter risers, packing to frame and concrete walls	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 5, kitchen	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Unit 5 bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 6, kitchen	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Unit 6, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Common area, outside unit 7, water meter risers, redundant gaskets	Gaskets	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 7, kitchen	Cream and blue speck vinyl floor tiles	Non-friable	Similar to A29	Assume negative	NA	NA	NA	NA	
Unit 7, bathroom ceiling	Concrete	NA	Visual Inspection	Assume negative	NA	NA	NA	NA	
Unit 7, rooftop terrace door, sealant between frame and wall	Sealant	Non-friable	A52	**Chrysotile Asbestos Detected**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 8, kitchen	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	
Unit 8 bathroom ceiling	Concrete	NA	Visual Inspection	Assume negative	NA	NA	NA	NA	
Unit 8, rooftop terrace door, sealant between frame and wall (brown)	Sealant	Non-friable	Similar to A52	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Common area, hinged windows, frame to pane putty (white)	Sealant	Non-friable	A53	No Asbestos Detected	NA	NA	NA	NA	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

SMF								
All floors, water risers, insulation to hot water pipes	Foil backed SMF insulation	Not friable	Not sampled Visual Inspection	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove during demolition works
Paints								
Internal ceilings	Off white		P07	0.053%w/w	NA	NA	NA	NA
Internal, walls	Cream Paint	NA	Visual inspection Similar to P03	Assume negative	NA	NA	NA	NA
PCBs								
Internal, throughout	Newer style fluorescent light fitting	NA	Visual inspection	Assume negative	NA	NA	NA	NA

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Location	Material Type	Friability	Sample	Analysis Result:	Quantity	Condition and Accessibility	Priority	Recommendations/ Comments	Photograph of material
40 Cumberland Street, The Rocks									
Inaccessible									
Internal, wall cavities	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Internal, walls behind ceramic tiles, membranes	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Asbestos									
Sub-basement electrical switch room	Electrical backing board	Non-friable	Similar to A12	**Assume positive**	1 unit	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
External, sealant between wall and brick path	Sealant	Non-friable	A54	**Chrysotile Asbestos Detected**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

External, western entry path & eastern courtyard, expansion gap	Sealant	Non-friable	A55	No Asbestos Detected	NA	NA	NA	NA	
Common are, outside unit 1, water meter riser, redundant gaskets	Gaskets	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 1, kitchen,	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	

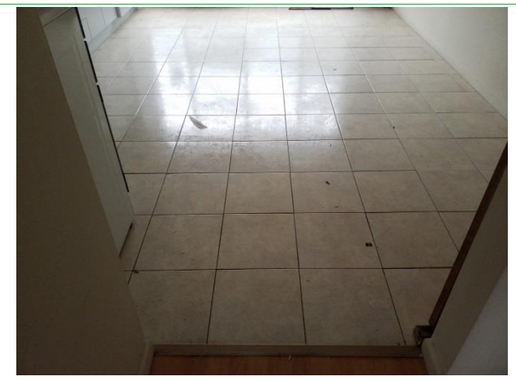
Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 1, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 2, kitchen floor	Tan fleck vinyl floor tiles	Non-friable	A56	No Asbestos Detected	NA	NA	NA	NA	
Unit 2, bathroom	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Common are, outside unit 3, water meter riser, redundant gaskets	Gaskets	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Common are, outside unit 3, water meter riser, packing between frame and wall + redundant material	Asbestos cement sheeting	Non-friable	A57	**Chrysotile Asbestos Detected** Organic Fibres Detected	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 3, kitchen, floor	Tan fleck vinyl floor tiles	Non-friable	Similar to A56	Assume negative	NA	NA	NA	NA	
Unit 3 bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 4, kitchen, floor	Cream and blue speck vinyl floor tiles	Non-friable	Similar to A29	Assume negative	NA	NA	NA	NA	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 4 bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 5, kitchen, floor	Ceramic tiles	NA	Visual Inspection	Assume negative	NA	NA	NA	NA	
Common are, outside unit 5, water meter riser, redundant gaskets	Gaskets	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 5 bathroom, ceiling	Concrete	NA	Visual Inspection	Assume negative	NA	NA	NA	NA	

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Unit 5 rooftop terrace door, sealant between frame and wall (brown)	Sealant	Non-friable	Similar to A52	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 6, kitchen, floor,	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	
Unit 6 bathroom, ceiling	Asbestos cement sheeting	Non-friable	A58	**Chrysotile Asbestos Detected** Organic Fibres Detected	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
SMF									
All floors, water risers, insulation to hot water pipes	Foil backed SMF insulation	Not friable	Not sampled	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove during demolition works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 6 roof terrace, waterproofing under pebble coating	Bituminous membrane	Non-friable	A59	**Synthetic Mineral Fibres Detected** No Asbestos Detected	NA	NA	NA	NA	
Paints									
Internal ceilings	Off white	NA	Visual inspection Similar to P07	Assume negative	NA	NA	NA	NA	
Internal, walls	Cream Paint	NA	Visual inspection Similar to P03	Assume negative	NA	NA	NA	NA	
PCBs									
Internal, throughout	Newer style fluorescent light fitting	NA	Visual inspection	Assume negative	NA	NA	NA	NA	

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Site Address: 2-60 Cumberland St, The Rocks NSW

Location	Material Type	Friability	Sample	Analysis Result:	Quantity	Condition and Accessibility	Priority	Recommendations/ Comments	Photograph of material
42 Cumberland Street, The Rocks									
Inaccessible									
Internal, wall cavities	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Internal, walls behind ceramic tiles, membranes	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Asbestos									
Bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Kitchen, floor under new vinyl sheeting	Grey fleck vinyl floor tiles	Non-friable	Similar to A36	Assume negative	NA	NA	NA	NA	
SMF									
Water risers, insulation to hot water pipes	Foil backed SMF insulation	Not friable	Not sampled	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove during demolition works	

Hazardous Materials Register
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Paints								
Internal ceilings	Off white	NA	Visual inspection Similar to P07	Assume negative	NA	NA	NA	NA
Internal, walls	Cream Paint	NA	Visual inspection Similar to P03	Assume negative	NA	NA	NA	NA
PCBs								
Internal, throughout	Newer style fluorescent light fitting	NA	Visual inspection	Assume negative	NA	NA	NA	NA

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Location	Material Type	Friability	Sample	Analysis Result:	Quantity	Condition and Accessibility	Priority	Recommendations/ Comments	Photograph of material
44 Cumberland Street, The Rocks									
Inaccessible									
Internal, wall cavities	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown** **Inaccessible**	**Inaccessible**	**No access available at time of inspection.** **When areas are accessible, confirm status of hazardous materials.**	
Internal, walls behind ceramic tiles, membranes	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown** **Inaccessible**	**Inaccessible**	**No access available at time of inspection.** **When areas are accessible, confirm status of hazardous materials.**	
Asbestos									
Carpark									
Car park, communications room, grey fire proofing to cable penetration Used throughout the building	Sealant	Non-friable	A01	No Asbestos Detected	NA	NA	NA	NA	
Car park, kitchenette, floor	Cream vinyl floor tiles	Non-friable	A02	No Asbestos Detected	NA	NA	NA	NA	

Hazardous Materials Register
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Car park, kitchenette, infill panel behind water meter	Asbestos cement sheeting	Non-friable	A03	**Chrysotile Asbestos Detected** Organic Fibres Detected	<1m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
External									
External, expansion gaps to concrete	Sealant	Non-friable	A05	No Asbestos Detected	NA	NA	NA	NA	
External, awning to main entry	Fibre cement sheeting	Non-friable	A06	No Asbestos Detected Organic Fibres Detected	NA	NA	NA	NA	

Hazardous Materials Register
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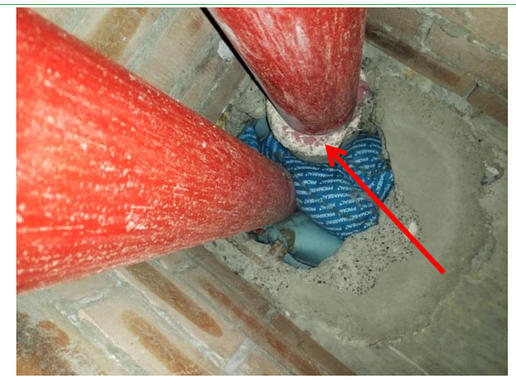
External window mastic	Sealant	Non-friable	A08	**Chrysotile Asbestos Detected**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
All floors									
All floors, fire hydrant cupboard, penetration sealant around hydrant pipes	Woven asbestos rope	Friable	A09	**Chrysotile Asbestos Detected** Organic Fibres Detected	Not determined	Fair Maintenance only	Priority 3: Low Risk Level	Restrict access to hydrant cupboards to essential services only. Remove material prior to undertaking any works on hydrant lines.	
All floors, fire hydrant cupboards, floor surfaces dusts	Asbestos containing dusts	Friable	Similar to A09	**Assume positive**	Not determined	Poor Maintenance only	Priority 3: Low Risk Level	Restrict access to hydrant cupboards to essential services only. Remove material prior to undertaking any works on hydrant lines.	

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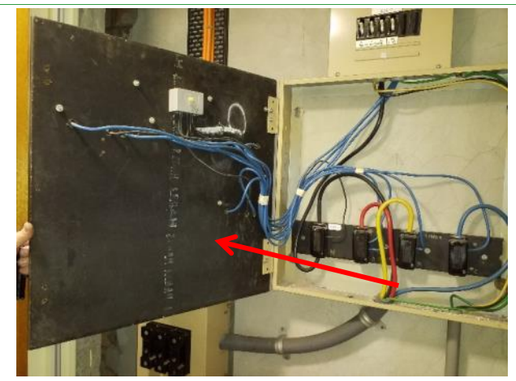
All residential floors, electrical main switchboard	Electrical backing board	Non-friable	A12	**Chrysotile Asbestos Detected**	2 units per floor	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
All residential floors, residential units, switchboards	Electrical backing board – not ACM	Non-friable	Not sampled	Assume negative	NA	NA	NA	NA	
Ground floor									
Ground floor, adjacent to main door residual material to north wall	Sealant	Non-friable	A07	**Chrysotile Asbestos Detected**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
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Ground floor, basement access stairs “Padde”	Fire door	Friable	A10	**Chrysotile Asbestos Detected** Organic Fibres Detected	1 unit	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Ground floor, female amenities, door (2009 tag stuck on)	Fire door	Friable	A11	**Chrysotile Asbestos Detected** Organic Fibres Detected	1 Unit	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works. Tag not original to door. All doors are to be assumed to contain asbestos unless certificates with installation dates after 2003 can be obtained.	
First Floor									
First floor, unit 11, kitchen floor	Cream fleck vinyl floor tiles	Non-friable	A13	No Asbestos Detected	NA	NA	NA	NA	

Hazardous Materials Register
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First floor, unit 11,bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
First floor, wall to ceiling joint	Sealant	Non-friable	A15	No Asbestos Detected	NA	NA	NA	NA	
First floor, western fire stairs, door “Padde”	Fire door	Friable	Similar to A10	**Assume positive**	1 door	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
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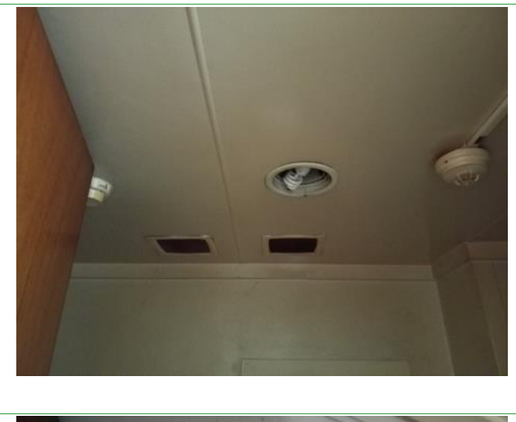
First floor, unit 12, kitchen, floor	Cream vinyl floor tiles	Non-friable	A16	No Asbestos Detected	NA	NA	NA	NA	
First floor, unit 12, bathroom, ceiling	Asbestos cement sheeting	Non-friable	A17	**Chrysotile Asbestos Detected** Organic Fibres Detected	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
First floor, unit 13, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
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First floor, waste disposal room, services riser, penetrations, fire proofing	Sealant	Non-friable	A18	No Asbestos Detected	NA	NA	NA	NA	
Second Floor									
Second floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting	Non-friable	Similar to A20	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Second floor, unit 21 bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
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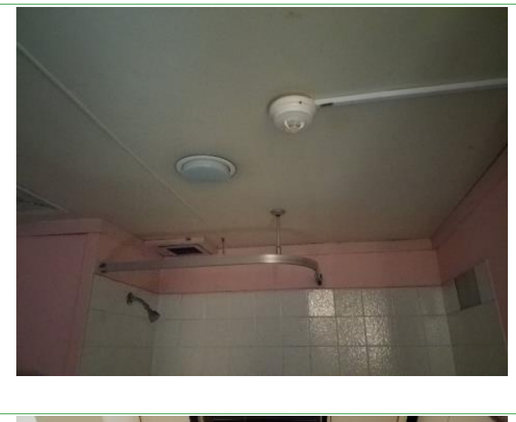
Second floor, unit 22, kitchen and dining room, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Second floor, unit 22, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Second floor, unit 23, kitchen floor	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	

Hazardous Materials Register
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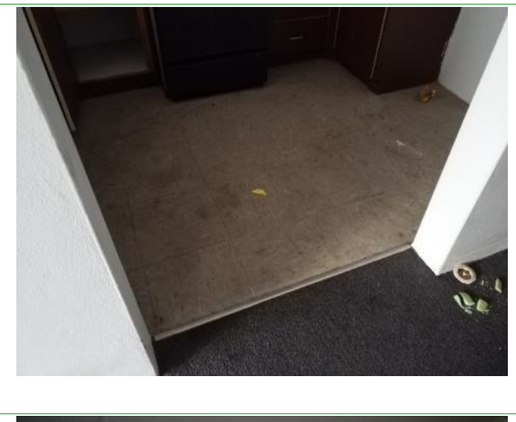
Second floor, unit 23, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Second floor, unit 24, kitchen, floor,	Grey fleck vinyl floor tiles	Non-friable	A19	No Asbestos Detected	NA	NA	NA	NA	
Second floor, unit 24 bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
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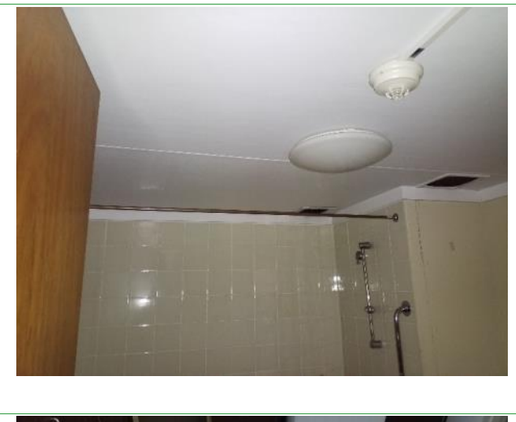
Second floor, unit 25, kitchen and dining, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Second floor, unit 25, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Second floor, unit 26, kitchen floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	

Hazardous Materials Register
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Second floor, unit 26, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Third Floor									
Third floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting	Non-friable	A20	**Chrysotile Asbestos Detected** Organic Fibres Detected	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Third floor, unit 31, entry door “Padde”	Fire door	Friable	Similar to A10	**Assume positive**	1 door	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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Third floor, unit 31, kitchen, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Third floor, unit 31, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Third floor, unit 32, kitchen, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	

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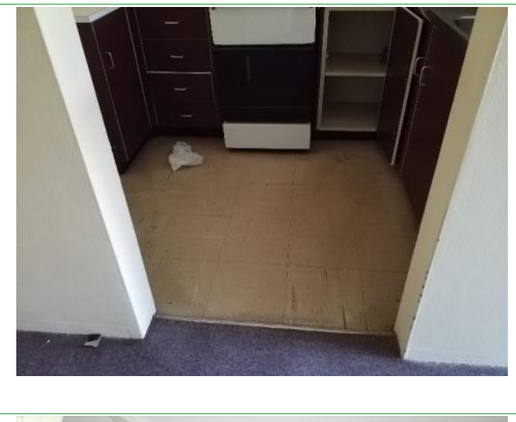
Third floor, unit 32, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Third floor, unit 33, kitchen, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Third floor, unit 33, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
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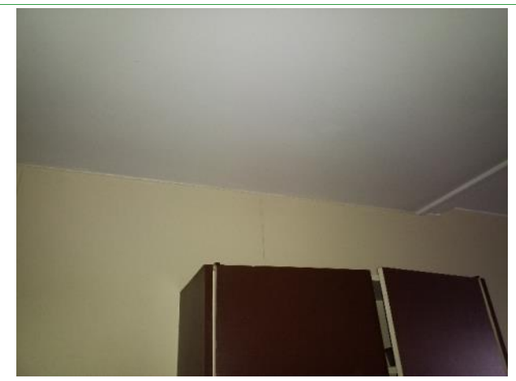
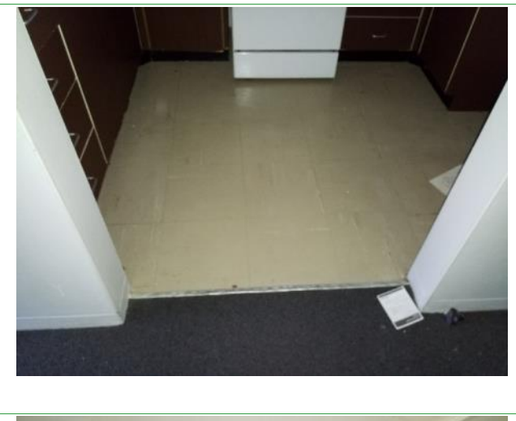
Third floor, unit 33, horizontal slip joint	Sealant	Non-friable	A24	No Asbestos Detected	NA	NA	NA	NA	
Third floor, unit 34, kitchen, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Third floor, unit 34, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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Third floor, unit 35, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Third floor, unit 36, bathroom ceiling	Asbestos cement sheeting	Non-friable	A25	**Chrysotile Asbestos Detected** Organic Fibres Detected	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Third floor, unit 36, external window frame to wall	Sealant	Non-friable	A26	No Asbestos Detected	NA	NA	NA	NA	

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Fourth floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting	Non-friable	Similar to A20	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Fourth floor, Fourth floor, unit 41, kitchen, floor underneath stove	Cork print vinyl floor tiles	Non-friable	A27	No Asbestos Detected Organic Fibres Detected	NA	NA	NA	NA	
Fourth floor, Fourth floor, unit 41, kitchen, floor underneath stove	Beige vinyl floor tiles	Non-friable	A28	No Asbestos Detected	NA	NA	NA	NA	
Fourth floor, Fourth floor, unit 41, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A25	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
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Fourth floor, Fourth floor, unit 42, kitchen/ dining, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Fourth floor, Fourth floor, unit 42, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A25	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Fourth floor, Fourth floor, unit 43, kitchen, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	

Hazardous Materials Register
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Fourth floor, Fourth floor, unit 43 bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A25	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Fourth floor, unit 44, kitchen, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Fourth floor, unit 44, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A25	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
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Fourth floor, unit 44, horizontal slip joints	Foam	NA	Visual Inspection	Assume negative	NA	NA	NA	NA	
Fourth floor, unit 45, kitchen/ dining, floor	Cream and blue speck vinyl floor tiles	Non-friable	A29	No Asbestos Detected	NA	NA	NA	NA	
Fourth floor, unit 45, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A25	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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Fourth floor, unit 45, sun room, waterproofing to concrete walls below windows (black)	Sealant	Non-friable	A30	No Asbestos Detected	NA	NA	NA	NA	
Fourth floor, unit 46, kitchen, floe	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Fourth floor, unit 46, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A25	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
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Fifth floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting	Non-friable	Similar to A20	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Fifth floor, unit 51, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Fifth floor, unit 51, kitchen floor	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	

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Fifth floor, unit 52, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A25	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Fifth floor, unit 53, kitchen floor	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	
Fifth floor, unit 53, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A25	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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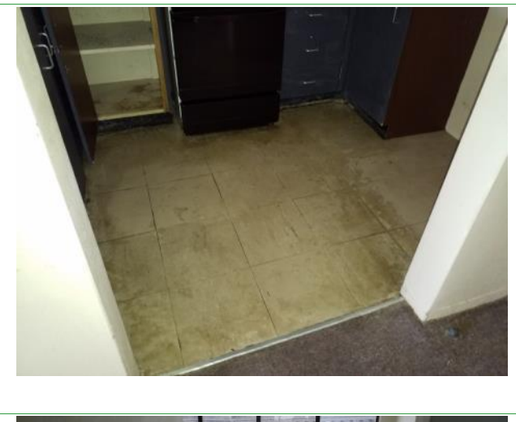
Fifth floor, unit 54, bathroom ceiling	Asbestos cement sheeting	Non-friable	A31	**Chrysotile Asbestos Detected** Organic Fibres Detected	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Fifth floor, unit 54, kitchen, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Fifth floor, unit 55, kitchen floor	Cream/ grey fleck vinyl floor tiles	Non-friable	Similar to A35	Assume negative	NA	NA	NA	NA	

Hazardous Materials Register
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Fifth floor, unit 55, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Fifth floor, unit 55, balcony door, frame to wall	Sealant	Non-friable	A32	**Chrysotile Asbestos Detected**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Fifth floor, unit 56, kitchen, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	

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Fifth floor, unit 56, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Sixth floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting	Non-friable	Similar to A20	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Sixth floor, unit 61, kitchen	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	

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Sixth floor, unit 61, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Sixth floor, unit 62, southern room, entry door to balcony, floor	Tan fleck vinyl floor tiles	Non-friable	A33	No Asbestos Detected	NA	NA	NA	NA	
Sixth floor, unit 62, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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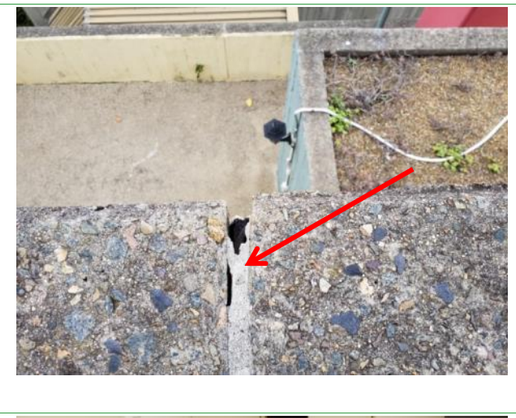
Sixth floor, unit 62, kitchen, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
External, expansion gaps	Bituminous material	Non-friable	A34	No Asbestos Detected Organic Fibres Detected	NA	NA	NA	NA	
Sixth floor, unit 63, kitchen, floor	Cream/ grey fleck vinyl floor tiles	Non-friable	A35	No Asbestos Detected	NA	NA	NA	NA	

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Sixth floor, unit 63, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Sixth floor, southern fire door “Padde”	Fire door	Friable	Similar to A10	**Assume positive**	1 door	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Sixth floor, unit 64, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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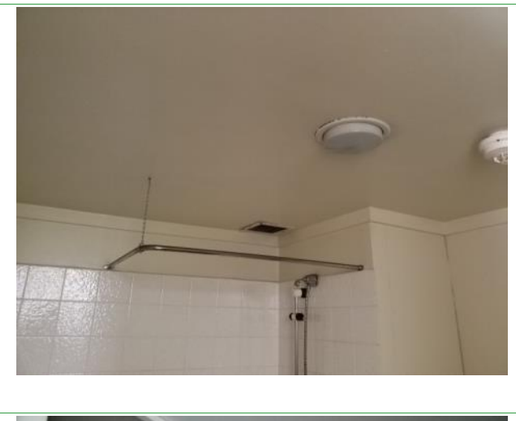
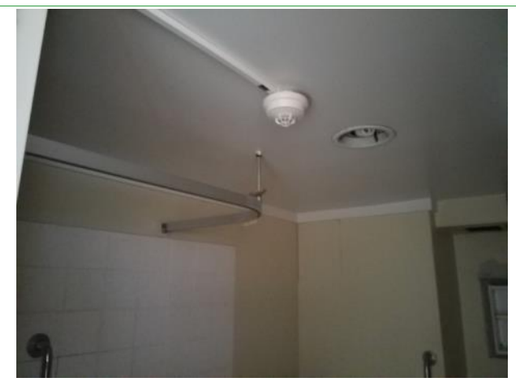
Sixth floor, unit 64, kitchen	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	
Sixth floor, unit 65, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Sixth floor, unit 66, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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Sixth floor, unit 66, kitchen, floor	Cream/ grey fleck vinyl floor tiles	Non-friable	Similar to A35	Assume negative	NA	NA	NA	NA	
Seventh floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting	Non-friable	Similar to A20	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Seventh floor, unit 71, entry, halfway and living areas	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	

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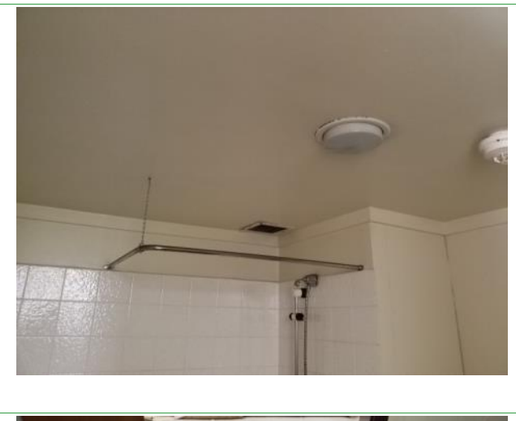
Seventh floor, unit 71, kitchen floor	Grey fleck vinyl floor tiles	Non-friable	A36	No Asbestos Detected	NA	NA	NA	NA	
Seventh floor, unit 71, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Seventh floor, unit 72, kitchen floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	

Hazardous Materials Register
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Seventh floor, unit 72, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Seventh floor, unit 73, kitchen	Cream and blue speck vinyl floor tiles	Non-friable	Similar to A29	Assume negative	NA	NA	NA	NA	
Seventh floor, unit 73, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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Seventh floor, unit 74, kitchen	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Seventh floor, unit 74, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Seventh floor, drying room, lift lobby supply fan, flanges	Green sealant	Non-friable	A37	No Asbestos Detected	NA	NA	NA	NA	

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Seventh floor, unit 75, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A17	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Seventh floor, unit 75, kitchen	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Eight floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting	Non-friable	Similar to A20	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
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Eighth floor, unit 81, kitchen	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Eighth floor, unit 81, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Eighth floor, unit 82, kitchen,	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	

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Eighth floor, unit 82, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Eighth floor, unit 83, kitchen	Cream and blue speck vinyl floor tiles	Non-friable	Similar to A29	Assume negative	NA	NA	NA	NA	
Eighth floor, unit 83, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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Ninth floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting	Non-friable	Similar to A20	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Ninth floor, unit 91, kitchen	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Ninth floor, unit 91, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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Ninth floor, unit 92, kitchen dining, under vinyl sheeting	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Ninth floor, unit 92, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Ninth floor, unit 93, kitchen	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	

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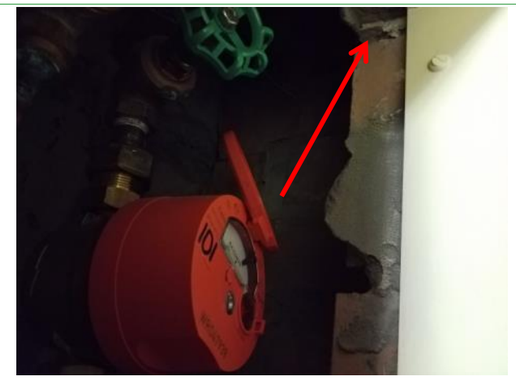
Ninth floor, unit 93, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Tenth floor, common area, water meter risers, packing between metal frame and brick walls	Asbestos cement sheeting	Non-friable	Similar to A20	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Tenth floor, common area, water meter riser, packing between metal frame and brick walls, redundant gasket (red)	Gasket	Friable	A38	**Chrysotile Asbestos Detected**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works Gaskets are likely to be found on each floor within water meter risers	

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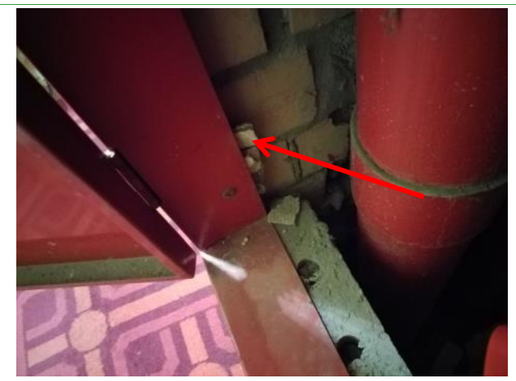
Tenth floor, hydrant riser, packing to door frames	Asbestos cement sheeting	Non-friable	Similar to A20	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Tenth floor, unit 101, kitchen floor	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	
Tenth floor, unit 101, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

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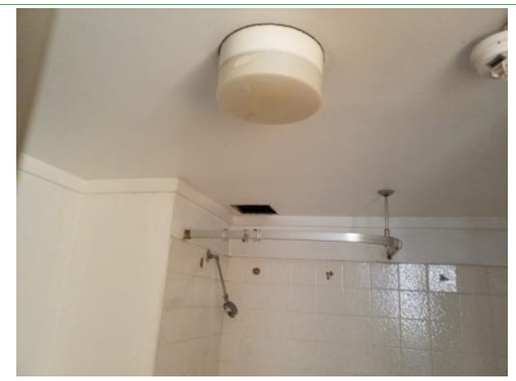
Tenth floor, unit 102, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	$6m^2$	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Tenth floor, unit 102, kitchen, under vinyl sheeting	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Tenth floor, unit 103, kitchen	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	

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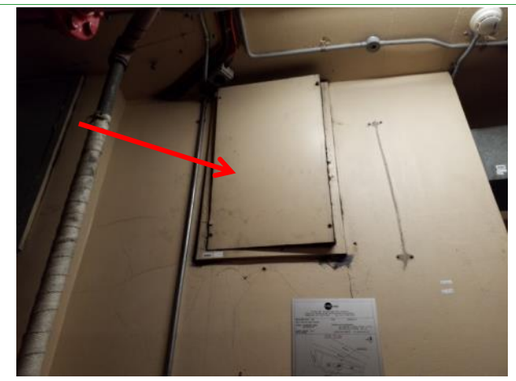
Tenth floor, unit 102, bathroom, ceiling	Asbestos cement sheeting	Non-friable	Similar to A31	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Eleventh floor, lift motor room, lift 1 &2, copper coil, insulation cover	Woven asbestos rope	Friable	A23	No Asbestos Detected Organic Fibres Detected	NA	NA	NA	NA	
Eleventh floor, hydrant pump room, high level access hatches to void “Padde”	Fire door	Friable	Similar to A10	**Assume positive**	2 doors	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
External, roof waterproofing membrane surface	Membrane	Non-friable	A41	No Asbestos Detected	NA	NA	NA	NA	

Hazardous Materials Register
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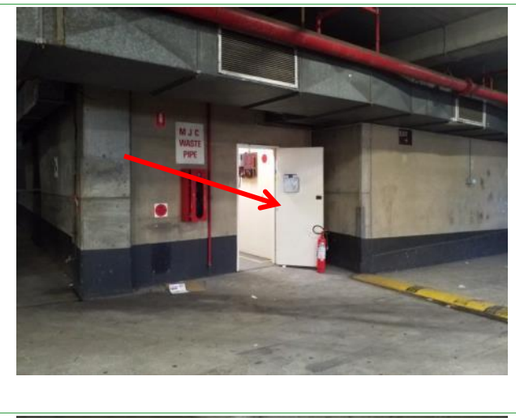
External Eleventh floor, south roof, waterproofing	Membrane	Non-friable	A40	No Asbestos Detected Organic Fibres Detected	NA	NA	NA	NA	
Car park, main switch room, door "Padde"	Fire door	Friable	Similar to A10	**Assume positive**	1 door	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Car park, circular piers (eastern elevation), top of pier, slip joint at slab	Fibre cement sheet	Non-friable	A43	No Asbestos Detected Organic Fibres Detected	NA	NA	NA	NA	
Car park, circular piers (eastern elevation) on surface of concrete	Fibre cement sheeting	Non-friable	A66	No Asbestos Detected	NA	NA	NA	NA	

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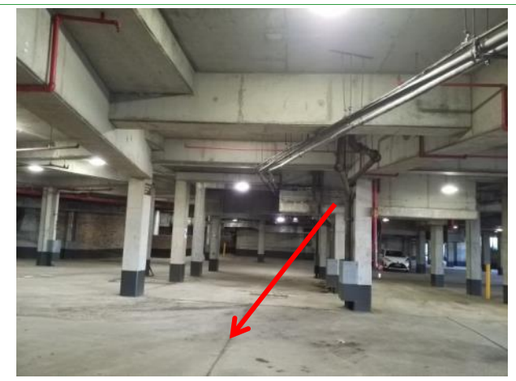
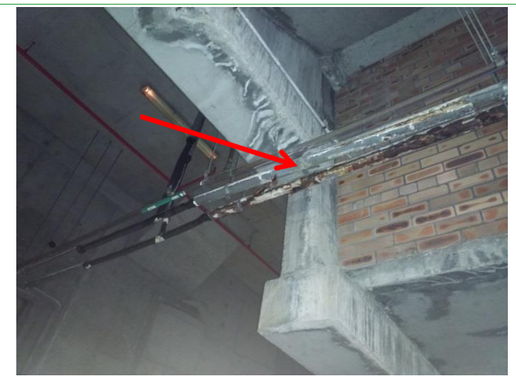
Car park, concrete floor expansion gaps	Sealant	Non-friable	A44	No Asbestos Detected	NA	NA	NA	NA	
Car park, waste penetrations, randomly around areas, infill panel	Asbestos cement sheeting	Non-friable	Similar to A20	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
SMF									
Car park, hot water pipes (metal clad)	Foil backed SMF insulation	Friable	A42	No Asbestos Detected **Synthetic Mineral Fibres Detected** Organic Fibres Detected	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove during demolition works	

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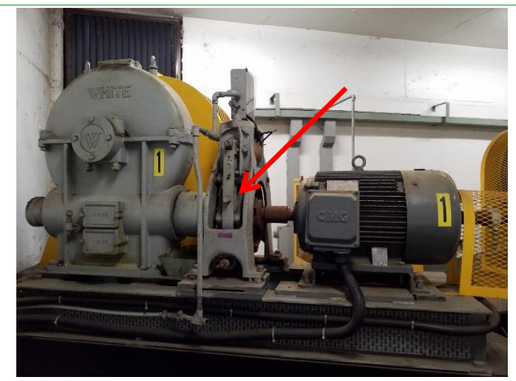
All floors, water risers, insulation to hot water pipes	Foil backed SMF insulation	Not friable	Not sampled	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove during demolition works	
Ground floor, fire panel cupboard, wall cavity, damp proof course	Membrane	Non-friable	A04	No Asbestos Detected **Synthetic Mineral Fibres Detected** Organic Fibres Detected	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove during demolition works	
Eleventh floor, lift motor room, lift 2, brakes	Brake pads	Non-friable	A22	No Asbestos Detected **Synthetic Mineral Fibres Detected** Organic Fibres Detected	2 units	Good Regular	Priority 4: Negligible Risk Level	Remove during demolition works	
Eleventh floor, lift motor room, lift 1, brakes	Brake pads	Non-friable	A21	No Asbestos Detected **Synthetic Mineral Fibres Detected** Organic Fibres Detected	2 units	Good Regular	Priority 4: Negligible Risk Level	Remove during demolition works	

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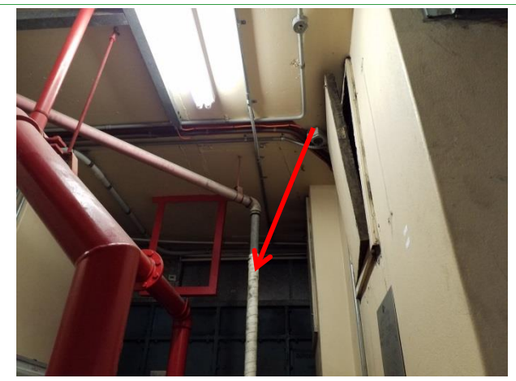
Eleventh floor, exhaust insulation	Woven SMF material	Friable	A39	No Asbestos Detected **Synthetic Mineral Fibres Detected**	1.5m	Good Maintenance only	Priority 4: Negligible Risk Level	Remove during demolition works	
Paints									
External, balustrades and metal stair rails	Olive Green Paint	NA	P02	**0.39% w/w**	Not determined	Good Maintenance only	Priority 3: Negligible Risk Level	Minimise abrasive works that will disturb paint during demolition.	
First floor, ceilings (stipple)	White Paint	NA	P01	<0.001% w/w	NA	NA	NA	NA	

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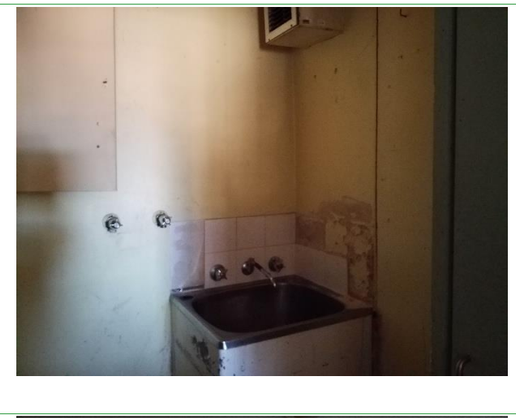
First floor, walls	Cream Paint	NA	P03	0.001% w/w	NA	NA	NA	NA	
Second floor, unit 21, laundry, walls	Yellow Paint	NA	P04	<0.001% w/w	NA	NA	NA	NA	
Second floor, unit 24, ceiling and walls	Pale Blue Paint	NA	P05	<0.001% w/w	NA	NA	NA	NA	

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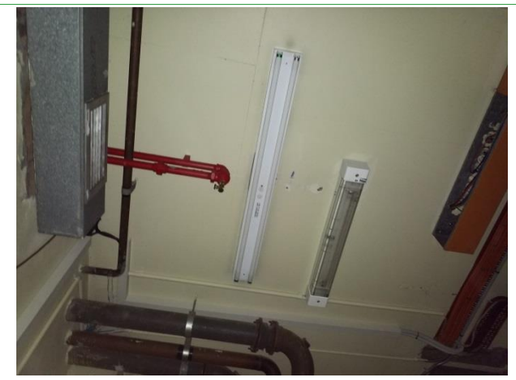
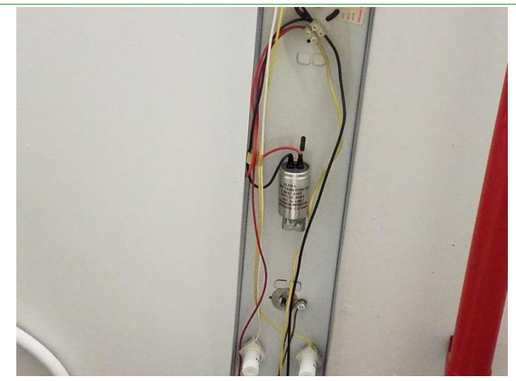
PCBs

3rd floor, unit 33, bathroom, ceiling single tube fluorescent light fitting	Ducon, paper capacitor, 3.5uf, apm235r	NA	Visual inspection	**Contains PCBs**	2 units	Good Maintenance only	Priority 3: Negligible Risk Level	Remove prior to refurbishment works	
Carpark, above vent 2 board and communications room, single tube fluorescent light fitting	Plessey plastic capacitor	NA	Visual inspection	Does not contain PCBs	NA	NA	NA	NA	
Carpark, store, opposite carpark entry, surface mount (philips screw), two tube fluorescent light fitting	Metal capacitor - Alpha mpp 6uf 250v 50hz	NA	Visual inspection	Does not contain PCBs	NA	NA	NA	NA	

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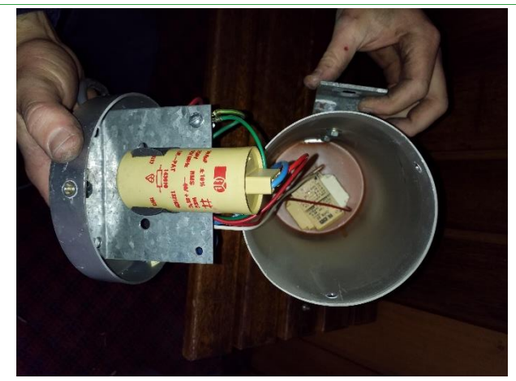
Ground floor, mercury vapour light fitting control	Plastic PCB	NA	Visual inspection	Assume negative	NA	NA	NA	NA	
Lift motor room, ceiling surface mount two tube fluorescent light fitting	Metal capacitor - Alpha mpp 6uf 250v 50hz	NA	Visual inspection	Does not contain PCBs	NA	NA	NA	NA	

Hazardous Materials Register
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Location	Material Type	Friability	Sample	Analysis Result:	Quantity	Condition and Accessibility	Priority	Recommendations/ Comments	Photograph of material
46 Cumberland Street, The Rocks									
Inaccessible									
Internal, wall cavities	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Internal, walls behind ceramic tiles, membranes	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Asbestos									
Kitchen, floor	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
SMF									
Water risers, insulation to hot water	Foil backed SMF	Not friable	Not sampled	**Assume**	Not determined	Good	Priority 4: Negligible	Remove during demolition	

Hazardous Materials Register
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pipes	insulation			**positive**		Maintenance only	Risk Level	works
Paints								
Internal ceilings	Off white	NA	Visual inspection Similar to P07	Assume negative	NA	NA	NA	NA
Internal, walls	Cream Paint	NA	Visual inspection Similar to P03	Assume negative	NA	NA	NA	NA
PCBs								
Internal, throughout	Newer style fluorescent light fitting	NA	Visual inspection	Assume negative	NA	NA	NA	NA

Hazardous Materials Register
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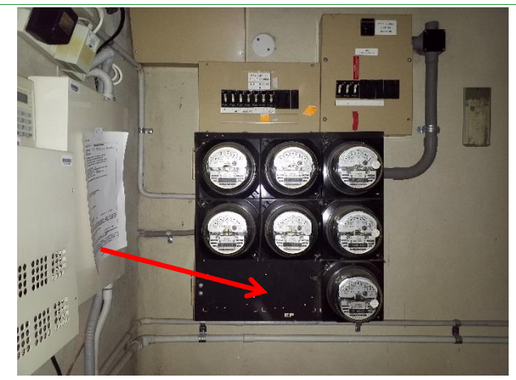
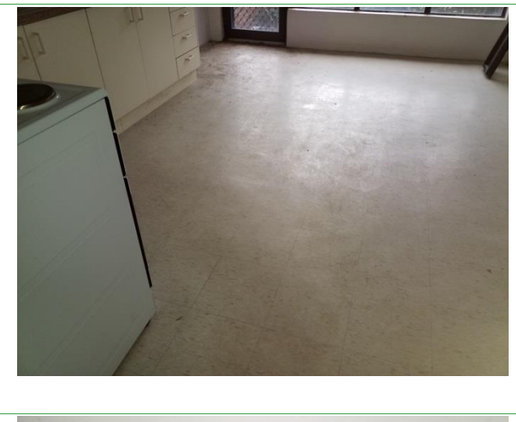
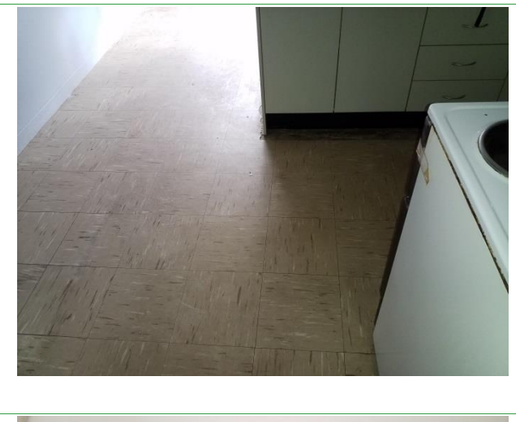
Location	Material Type	Friability	Sample	Analysis Result:	Quantity	Condition and Accessibility	Priority	Recommendations/ Comments	Photograph of material
48 Cumberland Street, The Rocks									
Inaccessible									
Internal, wall cavities	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Internal, walls behind ceramic tiles, membranes	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Asbestos									
Sub-basement, electrical switch room	Electrical backing board	Non-friable	Similar to A12	**Assume positive**	1 unit	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Sub-basement, drying room, door	Fire door	Friable	A61	**Amosite & Chrysotile Asbestos Detected**	1 unit	Fair Maintenance only		Sealed with black plastic and tape during inspection by 3rd party. Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Common areas, outside unit 1, water meter riser, redundant gaskets	Gasket	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 1, kitchen, floor	Bone fleck vinyl floor tiles	Non-friable	A62	No Asbestos Detected	NA	NA	NA	NA	
Unit 1, bathroom ceiling	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Common areas, outside unit 2, water meter riser, redundant gaskets	Gasket	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 2, kitchen, floor	Tan fleck vinyl floor tiles	Non-friable	Similar to A56	Assume negative	NA	NA	NA	NA	
Unit 2, bathroom	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 2, entry door “Padde”	Fire door	Friable	Similar to A10	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
External, eastern elevation, adjacent unit 2, residual mastic on concrete	Sealant	Non-friable	A63	No Asbestos Detected	NA	NA	NA	NA	
External, eastern elevation adjacent unit 2 courtyard door, mastic between downpipe and wall	Sealant	Non-friable	A64	**Chrysotile Asbestos Detected**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 3, kitchen,	Tan fleck vinyl floor tiles	Non-friable	Similar to A56	No Asbestos Detected	NA	NA	NA	NA	
Unit 3, bathroom	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	6m^2	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 3, storage cupboard adjacent kitchen, floor	Green geometric vinyl floor sheet	Friable	A65	**Chrysotile Asbestos Detected** Organic Fibres Detected	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

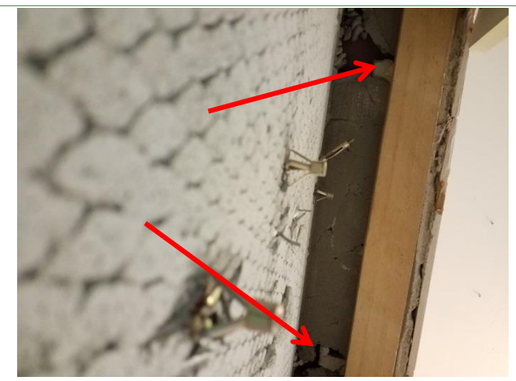
Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 3, entry door “Padde”	Fire door	Friable	Similar to A10	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Common areas, outside unit 4, water meter riser, redundant gaskets	Gasket	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 4, entry door “Padde”	Fire door	Friable	Similar to A10	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 4, kitchen	Tan fleck vinyl floor tiles	Non-friable	Similar to A56	Assume negative	NA	NA	NA	NA	
Unit 4, bathroom ceiling	Concrete	NA	Visual Inspection	Assume negative	NA	NA	NA	NA	
Unit 4 rooftop terrace, mastic to pebble surface and concrete wall	Sealant	Non-friable	Similar to A54	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Unit 6, entry door “Padde”	Fire door	Friable	Similar to A10	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 6, kitchen, underneath cupboard, covered with cork pattern	Cream vinyl floor tiles	Non-friable	Similar to A16	Assume negative	NA	NA	NA	NA	
Unit 6, bathroom, wall cavity where shaving cupboard was removed.	Asbestos cement sheeting	Non-friable	Similar to A47	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works.	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Common areas, outside unit 5, water meter riser, redundant gaskets	Gasket	Friable	Similar to A38	**Assume positive**	Not determined	Fair Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 5, entry door “Padde”	Fire door	Friable	Similar to A10	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove prior to refurbishment works	
Unit 5, kitchen,	Ceramic tiles	NA	Visual Inspection	Assume negative	NA	NA	NA	NA	
Unit 5, bathroom ceiling	Concrete	NA	Visual Inspection	Assume negative	NA	NA	NA	NA	

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

SMF								
All floors, water risers, insulation to hot water pipes	Foil backed SMF insulation	Not friable	Not sampled	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove during demolition works
Paints								
Internal ceilings	Off white	NA	Visual inspection Similar to P07	Assume negative	NA	NA	NA	NA
Internal, walls	Cream Paint	NA	Visual inspection Similar to P03	Assume negative	NA	NA	NA	NA
PCBs								
Internal, throughout	Newer style fluorescent light fitting	NA	Visual inspection	Assume negative	NA	NA	NA	NA

Hazardous Materials Register
Site Address: 2-60 Cumberland St, The Rocks NSW

Location	Material Type	Friability	Sample	Analysis Result:	Quantity	Condition and Accessibility	Priority	Recommendations/ Comments	Photograph of material
50 Cumberland Street, The Rocks									
Inaccessible									
Internal, wall cavities	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Internal, walls behind ceramic tiles, membranes	**Possible hazardous materials**	**Unknown**	**Inaccessible**	**NA**	**Not determined**	**Unknown Inaccessible**	**Inaccessible**	**No access available at time of inspection. When areas are accessible, confirm status of hazardous materials.**	
Asbestos									
Kitchen, floor	Cream fleck vinyl floor tiles	Non-friable	Similar to A13	Assume negative	NA	NA	NA	NA	
Bathroom, ceiling	Concrete	NA	Visual Inspection	Assume negative	NA	NA	NA	NA	
SMF									
Water risers, insulation to hot water pipes	Foil backed SMF insulation	Not friable	Not sampled	**Assume positive**	Not determined	Good Maintenance only	Priority 4: Negligible Risk Level	Remove during demolition works	
Paints									
Internal ceilings	Off white	NA	Visual inspection Similar to P07	Assume negative	NA	NA	NA	NA	
Internal, walls	Cream Paint	NA	Visual inspection Similar to P03	Assume negative	NA	NA	NA	NA	
PCBs									
Internal, throughout	Newer style fluorescent light fitting	NA	Visual inspection	Assume negative	NA	NA	NA	NA	

Appendix B - Laboratory CoC and Analytical Results

E-MAILED 22/5/20

Sheet 1 of _____

Site: 2-60 Cumberland St, The Rocks

Project No: E24614.E10

Laboratory: SGS Australia
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	Analysis: HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS				TCLP HM [B] / PAH
A01	1	ZLB	19/5-21/5				X						X										
A02	2	↓	↓				↓						X										
A03	3												X										
A04	4												X										
A05	5												X										
A06	6												X										
A07	7												X										
A08	8												X										
A09	9												X										
A10	10												X										
A11	11												X										
A12	12												X										

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

SGS EHS Sydney COC
SE206641

LABORATORY TURNAROUND

- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other_____

Container Type:
J= solvent washed, acid rinsed,Teflon sealed, glass jar
S= solvent washed, acid rinsed glass bottle
P= natural HDPE plastic bottle
VC= glass vial, Teflon Septum
ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI):	Received by (SGS):
Print: Kate Warton	Print: Suba
Signature:	Signature:
Date: 22/05/2020	Date: 22/05/20 @ 2:00

Sampler's Comments:

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

eiaustralia
Contamination | Remediation | Geotechnical
Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

Sheet 2 of _____

Site: 2-60 Cumberland St, The Rocks

Project No: E24614.E10

Laboratory: **SGS Australia**
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS				TCLP HM [B] / PAH
A13	13	ZLB	19/5-21/5				X						X										
A14	14	↓	↓				↓						X										
A15	15												X										
A16	16												X										
A17	17												X										
A18	18												X										
A19	19												X										
A20	20												X										
A21	21												X										
A22	22												X										
A23	23												X										
A24	24												X										

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other_____

Container Type:
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Print: Kate Warton	Print: Suba
Signature:	Signature:
Date: 22/05/2020	Date: 22/05/20 @2:00

Sampler's Comments:

IMPORTANT:
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PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

Sheet 3 of _____

Site: 2-60 Cumberland St, The Rocks

Project No: E24614.E10

Laboratory: **SGS Australia**
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	Analysis: HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS				TCLP HM [B] / PAH
A25	25	ZLB	19/5-21/5				X						X										
A26	26	↓	↓				↓						X										
A27	27												X										
A28	28												X										
A29	29												X										
A30	30												X										
A31	31												X										
A32	32												X										
A33	33												X										
A34	34												X										
A35	35	↓	↓				↓						X										
A36	36												X										

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other_____

Container Type:
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S= solvent washed, acid rinsed glass bottle
P= natural HDPE plastic bottle
VC= glass vial, Teflon Septum
ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI):	Received by (SGS):
Print: Kate Warton	Print: Suba
Signature:	Signature:
Date: 22/05/2020	Date: 22/05/20 @ 2.1

Sampler's Comments:

IMPORTANT:
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Ph: 9516 0722
lab@eiaustralia.com.au

Sheet 4 of _____

Site: 2-60 Cumberland St, The Rocks

Project No: E24614.E10

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Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	Analysis: HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS				TCLP HM [B] / PAH
A37	37	ZLB	19/5-21/5				X						X										
A38	38	↓	↓				↓						X										
A39	39												X										
A40	40												X										
A41	41												X										
A42	42												X										
A43	43												X										
A44	44												X										
A45	45												X										
A46	46												X										
A47	47	↓	↓				↓						X										
A48	48												X										

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other_____

Container Type:
J= solvent washed, acid rinsed,Teflon sealed, glass jar
S= solvent washed, acid rinsed glass bottle
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VC= glass vial, Teflon Septum
ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI):	Received by (SGS):
Print: Kate Warton	Print: Suba
Signature:	Signature:
Date: 22/05/2020	Date: 22/05/20

Sampler's Comments:

IMPORTANT:
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Sheet 5 of _____

Site: 2-60 Cumberland St, The Rocks

Project No: E24614.E10

Laboratory: **SGS Australia**
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	Analysis: HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS				TCLP HM [B] / PAH
A49	49	ZLB	19/5-21/5				X						X										
A50	50	↓	↓				↓						X										
A51	51												X										
A52	52												X										
A53	53												X										
A54	54												X										
A55	55												X										
A56	56												X										
A57	57												X										
A58	58												X										
A59	59												X										
A60	60												X										

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other_____

Container Type:
J= solvent washed, acid rinsed,Teflon sealed, glass jar
S= solvent washed, acid rinsed glass bottle
P= natural HDPE plastic bottle
VC= glass vial, Teflon Septum
ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI):	Received by (SGS):
Print: Kate Warton	Print: [illegible]
Signature:	Signature:
Date: 22/05/2020	Date: 22/05/20 @ 2:[illegible]

Sampler's Comments:

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

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PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

Sheet 6 of _____

Site: 2-60 Cumberland St, The Rocks

Project No: E24614.E10

Laboratory: **SGS Australia**
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	Analysis: HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	Lead in paint			TCLP HM [B] / PAH
A61	61	ZLB	19/5-21/5				X						X										
A62	62						X						X										
A63	63						X						X										
A64	64						X						X										
A65	65						X						X										
A66	66						X						X										
P01	67						X													X			
P02	68						X													X			
P03	69						X													X			
P04	70						X													X			
P05	71						X													X			
P06	72						X													X			

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other_____

Container Type:
J= solvent washed, acid rinsed,Teflon sealed, glass jar
S= solvent washed, acid rinsed glass bottle
P= natural HDPE plastic bottle
VC= glass vial, Teflon Septum
ZLB = Zip-Lock Bag

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Report with EI Waste Classification Table ☐

Sampler's Name (EI):	Received by (SGS):
Print: Kate Warton	Print: Suba
Signature:	Signature:
Date: 22/05/2020	Date: 22/05/20 e2.-

Sampler's Comments:

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

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PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

Sheet 7 of _____

Site: 2-60 Cumberland St, The Rocks

Project No: E24614.E10

Laboratory: **SGS Australia**
Unit 16, 33 Maddox Street,
ALEXANDRIA NSW 2015
P: 02 8594 0400 F: 02 8594 0499

Sample ID	Laboratory ID	Container Type	Sampling Date	Sampling Time	Sample Matrix: WATER	SOIL	OTHERS (i.e. Fibro, Paint, etc.)	Analysis: HM [A] /TRH/BTEX/PAHs OCP/OP/PCB/Asbestos	HM [A] /TRH/BTEX/PAHs	HM [A] /TRH/BTEX	BTEX	VOCs	Asbestos	Asbestos Quantification	pH / CEC (cation exchange)	pH / EC (electrical conductivity)	Dewatering Suite	sPOCAS	PFAS	Lead in paint			TCLP HM [B] / PAH
P07	73	ZLB	21/05/2020				X													X			

Comments

HM [A]
Arsenic
Cadmium
Chromium
Copper
Lead
Mercury
Nickel
Zinc

HM [B]
Arsenic
Cadmium
Chromium
Lead
Mercury
Nickel

Dewatering Suite
pH & EC
TDS / Turbidity NTU
Hardness
Total Cyanide
Metals (Al, As, Cd, Cr, Cu, Pb, Hg, Ni, Zn)
TRH (F1, F2, F3, F4)
BTEX
PAH
Total Phenol

LABORATORY TURNAROUND

- [X] Standard
- [ ] 24 Hours
- [ ] 48 Hours
- [ ] 72 Hours
- [ ] Other_____

Container Type:
J= solvent washed, acid rinsed,Teflon sealed, glass jar
S= solvent washed, acid rinsed glass bottle
P= natural HDPE plastic bottle
VC= glass vial, Teflon Septum
ZLB = Zip-Lock Bag

eiaustralia
Contamination | Remediation | Geotechnical

Suite 6.01, 55 Miller Street,
PYRMONT NSW 2009
Ph: 9516 0722
lab@eiaustralia.com.au

COC March 2018 FORM v.4 - SGS

Investigator: I attest that these samples were collected in accordance with standard EI field sampling procedures.

Sampler's Name (EI):	Received by (SGS):
Print: Kate Warton	Print: Siba
Signature:	Signature:
Date: 22/05/2020	Date: 22/05/20 e2:m

IMPORTANT:
Please e-mail laboratory results to: lab@eiaustralia.com.au

Report with EI Waste Classification Table ☐

Sampler's Comments:

SAMPLE RECEIPT ADVICE

SE206641

CLIENT DETAILS

Contact	Kate Warton
Client	EI AUSTRALIA
Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
Telephone	61 2 95160722
Facsimile	(Not specified)
Email	Kate.Warton@eiaustralia.com.au
Project	**E24614.E10 2-60 Cumberland St, The Rocks**
Order Number	**E24614.E10**
Samples	73

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
Samples Received	Fri 22/5/2020
Report Due	Fri 29/5/2020
SGS Reference	**SE206641**

SUBMISSION DETAILS

This is to confirm that 73 samples were received on Friday 22/5/2020. Results are expected to be ready by COB Friday 29/5/2020. Please quote SGS reference SE206641 when making enquiries. Refer below for details relating to sample integrity upon receipt.

Samples clearly labelled	Yes	Complete documentation received	Yes
Sample container provider	Client	Sample cooling method	None
Samples received in correct containers	Yes	Sample counts by matrix	66 Materials, 7 Paint
Date documentation received	22/5/2020@6:13pm	Type of documentation received	COC
Samples received in good order	Yes	Samples received without headspace	N/A
Sample temperature upon receipt	19.2°C	Sufficient sample for analysis	Yes
Turnaround time requested	Standard		

Unless otherwise instructed, water and bulk samples will be held for one month from date of report, and soil samples will be held for two months.

COMMENTS

SAMPLE RECEIPT ADVICE

SE206641

CLIENT DETAILS

Client EI AUSTRALIA

Project E24614.E10 2-60 Cumberland St, The Rocks

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials
001	A01	1
002	A02	1
003	A03	1
004	A04	1
005	A05	1
006	A06	1
007	A07	1
008	A08	1
009	A09	1
010	A10	1
011	A11	1
012	A12	1
013	A13	1
014	A14	1
015	A15	1
016	A16	1
017	A17	1
018	A18	1
019	A19	1
020	A20	1
021	A21	1
022	A22	1
023	A23	1
024	A24	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE206641

CLIENT DETAILS

Client EI AUSTRALIA

Project E24614.E10 2-60 Cumberland St, The Rocks

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials
025	A25	1
026	A26	1
027	A27	1
028	A28	1
029	A29	1
030	A30	1
031	A31	1
032	A32	1
033	A33	1
034	A34	1
035	A35	1
036	A36	1
037	A37	1
038	A38	1
039	A39	1
040	A40	1
041	A41	1
042	A42	1
043	A43	1
044	A44	1
045	A45	1
046	A46	1
047	A47	1
048	A48	1

CONTINUED OVERLEAF

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Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE206641

CLIENT DETAILS

Client EI AUSTRALIA

Project E24614.E10 2-60 Cumberland St, The Rocks

SUMMARY OF ANALYSIS

No.	Sample ID	Fibre ID in bulk materials	Metals in Paint by ICPOES
049	A49	1	-
050	A50	1	-
051	A51	1	-
052	A52	1	-
053	A53	1	-
054	A54	1	-
055	A55	1	-
056	A56	1	-
057	A57	1	-
058	A58	1	-
059	A59	1	-
060	A60	1	-
061	A61	1	-
062	A62	1	-
063	A63	1	-
064	A64	1	-
065	A65	1	-
066	A66	1	-
067	P01	-	1
068	P02	-	1
069	P03	-	1
070	P04	-	1
071	P05	-	1
072	P06	-	1

CONTINUED OVERLEAF

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
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Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

SAMPLE RECEIPT ADVICE

SE206641

CLIENT DETAILS

Client EI AUSTRALIA

Project E24614.E10 2-60 Cumberland St, The Rocks

SUMMARY OF ANALYSIS

No.	Sample ID	Metals in Paint by ICPOES
073	P07	1

The above table represents SGS' interpretation of the client-supplied Chain Of Custody document.
The numbers shown in the table indicate the number of results requested in each package.
Please indicate as soon as possible should your request differ from these details .
Testing as per this table shall commence immediately unless the client intervenes with a correction .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Kate Warton
Client	EI AUSTRALIA
Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
Telephone	61 2 95160722
Facsimile	(Not specified)
Email	Kate.Warton@eiaustralia.com.au
Project	**E24614.E10 2-60 Cumberland St, The Rocks**
Order Number	**E24614.E10**
Samples	73

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE206641 R0**
Date Received	22/5/2020
Date Reported	1/6/2020

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

Sample #1-2, 4-6, 13, 15-16, 18-19, 21-24, 26-30, 33-37, 40-45, 48, 53, 55-56, 59-60, 62-63, 66: No trace asbestos fibres detected using trace analysis technique.
Sample #10: Asbestos found in cement sheet fragments.

Asbestos analysed by Approved Identifiers Yusuf Kuthpudin and Ravee Sivasubramaniam ..

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

Fibre ID in bulk materials [AN602] Tested: 29/5/2020

PARAMETER	UOM	LOR	A01 MATERIAL - 19/5/2020 SE206641.001	A02 MATERIAL - 19/5/2020 SE206641.002	A03 MATERIAL - 19/5/2020 SE206641.003	A04 MATERIAL - 19/5/2020 SE206641.004	A05 MATERIAL - 19/5/2020 SE206641.005
Asbestos Detected	No unit	-	No	No	Yes	No	No

PARAMETER	UOM	LOR	A06 MATERIAL - 19/5/2020 SE206641.006	A07 MATERIAL - 19/5/2020 SE206641.007	A08 MATERIAL - 19/5/2020 SE206641.008	A09 MATERIAL - 19/5/2020 SE206641.009	A10 MATERIAL - 19/5/2020 SE206641.010
Asbestos Detected	No unit	-	No	Yes	Yes	Yes	Yes

PARAMETER	UOM	LOR	A11 MATERIAL - 19/5/2020 SE206641.011	A12 MATERIAL - 19/5/2020 SE206641.012	A13 MATERIAL - 19/5/2020 SE206641.013	A14 MATERIAL - 19/5/2020 SE206641.014	A15 MATERIAL - 19/5/2020 SE206641.015
Asbestos Detected	No unit	-	Yes	Yes	No	Yes	No

PARAMETER	UOM	LOR	A16 MATERIAL - 19/5/2020 SE206641.016	A17 MATERIAL - 19/5/2020 SE206641.017	A18 MATERIAL - 19/5/2020 SE206641.018	A19 MATERIAL - 19/5/2020 SE206641.019	A20 MATERIAL - 19/5/2020 SE206641.020
Asbestos Detected	No unit	-	No	Yes	No	No	Yes

PARAMETER	UOM	LOR	A21 MATERIAL - 19/5/2020 SE206641.021	A22 MATERIAL - 19/5/2020 SE206641.022	A23 MATERIAL - 19/5/2020 SE206641.023	A24 MATERIAL - 19/5/2020 SE206641.024	A25 MATERIAL - 19/5/2020 SE206641.025
Asbestos Detected	No unit	-	No	No	No	No	Yes

PARAMETER	UOM	LOR	A26 MATERIAL - 19/5/2020 SE206641.026	A27 MATERIAL - 19/5/2020 SE206641.027	A28 MATERIAL - 19/5/2020 SE206641.028	A29 MATERIAL - 19/5/2020 SE206641.029	A30 MATERIAL - 19/5/2020 SE206641.030
Asbestos Detected	No unit	-	No	No	No	No	No

PARAMETER	UOM	LOR	A31 MATERIAL - 19/5/2020 SE206641.031	A32 MATERIAL - 19/5/2020 SE206641.032	A33 MATERIAL - 19/5/2020 SE206641.033	A34 MATERIAL - 19/5/2020 SE206641.034	A35 MATERIAL - 19/5/2020 SE206641.035
Asbestos Detected	No unit	-	Yes	Yes	No	No	No

Fibre ID in bulk materials [AN602] Tested: 29/5/2020 (continued)

PARAMETER	UOM	LOR	A36 MATERIAL - 19/5/2020 SE206641.036	A37 MATERIAL - 19/5/2020 SE206641.037	A38 MATERIAL - 19/5/2020 SE206641.038	A39 MATERIAL - 19/5/2020 SE206641.039	A40 MATERIAL - 19/5/2020 SE206641.040
Asbestos Detected	No unit	-	No	No	Yes	No	No

PARAMETER	UOM	LOR	A41 MATERIAL - 19/5/2020 SE206641.041	A42 MATERIAL - 19/5/2020 SE206641.042	A43 MATERIAL - 19/5/2020 SE206641.043	A44 MATERIAL - 19/5/2020 SE206641.044	A45 MATERIAL - 19/5/2020 SE206641.045
Asbestos Detected	No unit	-	No	No	No	No	No

PARAMETER	UOM	LOR	A46 MATERIAL - 19/5/2020 SE206641.046	A47 MATERIAL - 19/5/2020 SE206641.047	A48 MATERIAL - 19/5/2020 SE206641.048	A49 MATERIAL - 19/5/2020 SE206641.049	A50 MATERIAL - 19/5/2020 SE206641.050
Asbestos Detected	No unit	-	Yes	Yes	No	Yes	Yes

PARAMETER	UOM	LOR	A51 MATERIAL - 19/5/2020 SE206641.051	A52 MATERIAL - 19/5/2020 SE206641.052	A53 MATERIAL - 19/5/2020 SE206641.053	A54 MATERIAL - 19/5/2020 SE206641.054	A55 MATERIAL - 19/5/2020 SE206641.055
Asbestos Detected	No unit	-	Yes	Yes	No	Yes	No

PARAMETER	UOM	LOR	A56 MATERIAL - 19/5/2020 SE206641.056	A57 MATERIAL - 19/5/2020 SE206641.057	A58 MATERIAL - 19/5/2020 SE206641.058	A59 MATERIAL - 19/5/2020 SE206641.059	A60 MATERIAL - 19/5/2020 SE206641.060
Asbestos Detected	No unit	-	No	Yes	Yes	No	No

PARAMETER	UOM	LOR	A61 MATERIAL - 19/5/2020 SE206641.061	A62 MATERIAL - 19/5/2020 SE206641.062	A63 MATERIAL - 19/5/2020 SE206641.063	A64 MATERIAL - 19/5/2020 SE206641.064	A65 MATERIAL - 19/5/2020 SE206641.065
Asbestos Detected	No unit	-	Yes	No	No	Yes	Yes

PARAMETER	UOM	LOR	A66 MATERIAL - 19/5/2020 SE206641.066
Asbestos Detected	No unit	-	No

Metals in Paint by ICPOES [AN065/AN320] Tested: 27/5/2020

PARAMETER	UOM	LOR	P01 PAINT - 19/5/2020 SE206641.067	P02 PAINT - 19/5/2020 SE206641.068	P03 PAINT - 19/5/2020 SE206641.069	P04 PAINT - 19/5/2020 SE206641.070	P05 PAINT - 19/5/2020 SE206641.071
Lead, Pb	%w/w	0.001	<0.001	**0.39**	**0.001**	<0.001	<0.001

PARAMETER	UOM	LOR	P06 PAINT - 19/5/2020 SE206641.072	P07 PAINT - 21/5/2020 SE206641.073
Lead, Pb	%w/w	0.001	<0.001	**0.053**

METHOD	METHODOLOGY SUMMARY
AN065/AN320	A portion of paint chips sample is digested with nitric acid to solubilise the metals into solution. Digest then analysed by ICP OES with result calculated back to the as received paint sample basis .
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples, Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

FOOTNOTES

*	NATA accreditation does not cover the performance of this service.	-	Not analysed.	UOM	Unit of Measure.
		NVL	Not validated.	LOR	Limit of Reporting.
**	Indicative data, theoretical holding time exceeded.	IS	Insufficient sample for analysis.	↑↓	Raised/lowered Limit of Reporting.
		LNR	Sample listed, but not received.		

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.
Solid samples expressed on a dry weight basis.

Where "Total" analyte groups are reported (for example, Total PAHs, Total OC Pesticides) the total will be calculated as the sum of the individual analytes, with those analytes that are reported as <LOR being assumed to be zero. The summed (Total) limit of reporting is calculated by summing the individual analyte LORs and dividing by two. For example, where 16 individual analytes are being summed and each has an LOR of 0.1 mg/kg, the "Totals" LOR will be 1.6 / 2 (0.8 mg/kg). Where only 2 analytes are being summed, the " Total" LOR will be the sum of those two LORs.

Some totals may not appear to add up because the total is rounded after adding up the raw values.

If reported, measurement uncertainty follow the ± sign after the analytical result and is expressed as the expanded uncertainty calculated using a coverage factor of 2, providing a level of confidence of approximately 95%, unless stated otherwise in the comments section of this report.

Results reported for samples tested under test methods with codes starting with ARS-SOP, radionuclide or gross radioactivity concentrations are expressed in becquerel (Bq) per unit of mass or volume or per wipe as stated on the report. Becquerel is the SI unit for activity and equals one nuclear transformation per second.
Note that in terms of units of radioactivity:

a. 1 Bq is equivalent to 27 pCi
b. 37 MBq is equivalent to 1 mCi

For results reported for samples tested under test methods with codes starting with ARS-SOP, less than (<) values indicate the detection limit for each radionuclide or parameter for the measurement system used. The respective detection limits have been calculated in accordance with ISO 11929.

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety .

ANALYTICAL REPORT

Accreditation No. 2562

CLIENT DETAILS

Contact	Kate Warton
Client	EI AUSTRALIA
Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
Telephone	61 2 95160722
Facsimile	(Not specified)
Email	Kate.Warton@eiaustralia.com.au
Project	**E24614.E10 2-60 Cumberland St, The Rocks**
Order Number	**E24614.E10**
Samples	66

LABORATORY DETAILS

Manager	Huong Crawford
Laboratory	SGS Alexandria Environmental
Address	Unit 16, 33 Maddox St Alexandria NSW 2015
Telephone	+61 2 8594 0400
Facsimile	+61 2 8594 0499
Email	au.environmental.sydney@sgs.com
SGS Reference	**SE206641 R0**
Date Received	22 May 2020
Date Reported	01 Jun 2020

COMMENTS

Accredited for compliance with ISO/IEC 17025 - Testing. NATA accredited laboratory 2562(4354).

Sample #1-2, 4-6, 13, 15-16, 18-19, 21-24, 26-30, 33-37, 40-45, 48, 53, 55-56, 59-60, 62-63, 66: No trace asbestos fibres detected using trace analysis technique.
Sample #10: Asbestos found in cement sheet fragments.

Asbestos analysed by Approved Identifiers Yusuf Kuthpudin and Ravee Sivasubramaniam ..

SIGNATORIES

Dong LIANG
Metals/Inorganics Team Leader

Ravee SIVASUBRAMANIAM
Hygiene Team Leader

RESULTS

Fibre ID in bulk materials — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE206641.001	A01	Other	30x10x2mm Grey gluey sealant material	19 May 2020	No Asbestos Detected	
SE206641.002	A02	Other	250x100x2mm Beige vinyl tile	19 May 2020	No Asbestos Detected	
SE206641.003	A03	Other	<1g Cement sheet fragments	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.004	A04	Other	30x20x2mm Bituminous membrane	19 May 2020	No Asbestos Detected Synthetic Mineral Fibres Detected Organic Fibres Detected	
SE206641.005	A05	Other	30x15x6mm Rubber sealant fragment	19 May 2020	No Asbestos Detected	
SE206641.006	A06	Other	<1g Cement sheet fragments	19 May 2020	No Asbestos Detected Organic Fibres Detected	
SE206641.007	A07	Other	<1g Resinous board fragments	19 May 2020	Chrysotile Asbestos Detected	
SE206641.008	A08	Other	15x4x3mm Putty fragments	19 May 2020	Chrysotile Asbestos Detected	
SE206641.009	A09	Other	25x15x2mm White fibrous material	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.010	A10	Other	Approx 2g Vermiculite board fragments + Cement sheet fragments	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.011	A11	Other	<1g Cement sheet fragments	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.012	A12	Other	<1g Resinous board fragments	19 May 2020	Chrysotile Asbestos Detected	
SE206641.013	A13	Other	50x25x2mm Beige vinyl tile fragments	19 May 2020	No Asbestos Detected	
SE206641.014	A14	Other	25x10x3mm Cement sheet fragment	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.015	A15	Other	<1g White loose plaster material	19 May 2020	No Asbestos Detected	
SE206641.016	A16	Other	50x20x2mm Beige vinyl tile fragments	19 May 2020	No Asbestos Detected	
SE206641.017	A17	Other	15x15x3mm Cement sheet fragment	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.018	A18	Other	60x25x10mm Black/ Grey rubbery sealant fragments	19 May 2020	No Asbestos Detected	
SE206641.019	A19	Other	220x30x2mm Grey vinyl tile fragments	19 May 2020	No Asbestos Detected	
SE206641.020	A20	Other	<1g Cement sheet fragments	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.021	A21	Other	<1g Black fibrous material fragments	19 May 2020	No Asbestos Detected Synthetic Mineral Fibres Detected Organic Fibres Detected	

RESULTS

Fibre ID in bulk materials — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE206641.022	A22	Other	<1g Brown fibrous material fragments	19 May 2020	No Asbestos Detected Synthetic Mineral Fibres Detected Organic Fibres Detected	
SE206641.023	A23	Other	25x8x3mm Brown fibrous material (Compressed wool) fragments	19 May 2020	No Asbestos Detected Organic Fibres Detected	
SE206641.024	A24	Other	15x4x4mm White rubbery material fragment	19 May 2020	No Asbestos Detected	
SE206641.025	A25	Other	25x10x3mm Cement sheet fragments	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.026	A26	Other	40x10x3mm White rubbery sealant fragment	19 May 2020	No Asbestos Detected	
SE206641.027	A27	Other	100x60x5mm Vinyl sheet attached to adhesive board fragment	19 May 2020	No Asbestos Detected Organic Fibres Detected	
SE206641.028	A28	Other	80x40x2mm Beige vinyl tile fragments	19 May 2020	No Asbestos Detected	
SE206641.029	A29	Other	300x80x2mm Beige vinyl tile fragments	19 May 2020	No Asbestos Detected	
SE206641.030	A30	Other	30x20x2mm Black rubber sealant fragment	19 May 2020	No Asbestos Detected	
SE206641.031	A31	Other	25x10x3mm Cement sheet fragments	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.032	A32	Other	40x10x3mm Black/ Grey putty fragments	19 May 2020	Chrysotile Asbestos Detected	
SE206641.033	A33	Other	200x40x2mm Beige vinyl tile	19 May 2020	No Asbestos Detected	
SE206641.034	A34	Other	25x10x4mm Bituminous membrane	19 May 2020	No Asbestos Detected Organic Fibres Detected	
SE206641.035	A35	Other	200x65x2mm Grey vinyl tile fragments	19 May 2020	No Asbestos Detected	
SE206641.036	A36	Other	200x40x2mm Grey vinyl tile fragments	19 May 2020	No Asbestos Detected	
SE206641.037	A37	Other	<1g Grey gluey adhesive material	19 May 2020	No Asbestos Detected	
SE206641.038	A38	Other	20mm Diameter round brown fibrous material (gasket)	19 May 2020	Chrysotile Asbestos Detected	

RESULTS

Fibre ID in bulk materials — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE206641.039	A39	Other	<1g White spongy fibrous material (wool)	19 May 2020	No Asbestos Detected Synthetic Mineral Fibres Detected	
SE206641.040	A40	Other	50x15x3mm Bituminous material fragments	19 May 2020	No Asbestos Detected Organic Fibres Detected	
SE206641.041	A41	Other	20x10x5mm Bituminous resinous material	19 May 2020	No Asbestos Detected	
SE206641.042	A42	Other	<1g White/ Brown loose fibrous board	19 May 2020	No Asbestos Detected Synthetic Mineral Fibres Detected Organic Fibres Detected	
SE206641.043	A43	Other	20x7x2mm Cement sheet fragment	19 May 2020	No Asbestos Detected Organic Fibres Detected	
SE206641.044	A44	Other	20x10x5mm Bituminous material	19 May 2020	No Asbestos Detected	
SE206641.045	A45	Other	Approx 2g Cement sheet fragments	19 May 2020	No Asbestos Detected Organic Fibres Detected	
SE206641.046	A46	Other	<1g Cement sheet fragments	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.047	A47	Other	10x8x3mm Cement sheet fragments	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.048	A48	Other	10x8x2mm Grey spongy foam material	19 May 2020	No Asbestos Detected	
SE206641.049	A49	Other	15x8x3mm Grey putty material fragments	19 May 2020	Chrysotile Asbestos Detected	
SE206641.050	A50	Other	<1g Bituminous material fragments	19 May 2020	Chrysotile Asbestos Detected	
SE206641.051	A51	Other	25x5x3mm Putty material	19 May 2020	Chrysotile Asbestos Detected	
SE206641.052	A52	Other	20x6x2mm Grey putty material	19 May 2020	Chrysotile Asbestos Detected	
SE206641.053	A53	Other	Approx 2g Grey putty material	19 May 2020	No Asbestos Detected	
SE206641.054	A54	Other	15x6x4mm Grey putty material	19 May 2020	Chrysotile Asbestos Detected	
SE206641.055	A55	Other	10x6x4mm White rubbery sealant fragment	19 May 2020	No Asbestos Detected	
SE206641.056	A56	Other	60x30x2mm Beige vinyl tile	19 May 2020	No Asbestos Detected	
SE206641.057	A57	Other	65x40x5mm Cement sheet fragment	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.058	A58	Other	10x6x3mm Cement sheet fragments	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	

RESULTS

Fibre ID in bulk materials — Method AN602

Laboratory Reference	Client Reference	Matrix	Sample Description	Date Sampled	Fibre Identification	Est.%w/w*
SE206641.059	A59	Other	25x10x3mm Bituminous material fragments	19 May 2020	No Asbestos Detected Synthetic Mineral Fibres Detected	
SE206641.060	A60	Other	15x10x3mm Gluey mastic material	19 May 2020	No Asbestos Detected	
SE206641.061	A61	Other	120x40x5mm Cement sheet fragments	19 May 2020	Amosite & Chrysotile Asbestos Detected	
SE206641.062	A62	Other	80x20x2mm Beige vinyl tile	19 May 2020	No Asbestos Detected	
SE206641.063	A63	Other	15x5x3mm Grey putty material	19 May 2020	No Asbestos Detected	
SE206641.064	A64	Other	20x10x4mm Grey putty material	19 May 2020	Chrysotile Asbestos Detected	
SE206641.065	A65	Other	20x15x2mm Vinyl underlay	19 May 2020	Chrysotile Asbestos Detected Organic Fibres Detected	
SE206641.066	A66	Other	30x10x3mm Black vinyl tile with brown adhesive	19 May 2020	No Asbestos Detected	

METHOD SUMMARY

METHOD	METHODOLOGY SUMMARY
AN602	Qualitative identification of chrysotile, amosite and crocidolite in bulk samples by polarised light microscopy (PLM) in conjunction with dispersion staining (DS). AS4964 provides the basis for this document. Unequivocal identification of the asbestos minerals present is made by obtaining sufficient diagnostic `clues`, which provide a reasonable degree of certainty, dispersion staining is a mandatory `clue` for positive identification. If sufficient `clues` are absent, then positive identification of asbestos is not possible. This procedure requires removal of suspect fibres/bundles from the sample which cannot be returned.
AN602	Fibres/material that cannot be unequivocably identified as one of the three asbestos forms, will be reported as unknown mineral fibres (umf). The fibres detected may or may not be asbestos fibres.
AN602	AS4964.2004 Method for the Qualitative Identification of Asbestos in Bulk Samples , Section 8.4, Trace Analysis Criteria, Note 4 states:"Depending upon sample condition and fibre type, the detection limit of this technique has been found to lie generally in the range of 1 in 1,000 to 1 in 10,000 parts by weight, equivalent to 1 to 0.1 g/kg."

FOOTNOTES

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

(In reference to soil samples only) This report does not comply with the analytical reporting recommendations in the Western Australian Department of Health Guidelines for the Assessment and Remediation and Management of Asbestos Contaminated sites in Western Australia - May 2009.

Unless it is reported that sampling has been performed by SGS, the samples have been analysed as received.

Where reported: 'Asbestos Detected': Asbestos detected by polarised light microscopy, including dispersion staining.
Where reported: 'No Asbestos Found': No Asbestos Found by polarised light microscopy, including dispersion staining.
Where reported: 'UMF Detected': Mineral fibres of unknown type detected by polarised light microscopy, including dispersion staining. Confirmation by another independent analytical technique may be necessary.

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

The QC and MU criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: www.sgs.com.au/en-gb/environment-health-and-safety.

STATEMENT OF QA/QC PERFORMANCE

SE206641 R0

CLIENT DETAILS

Contact	Kate Warton
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Address	SUITE 6.01 55 MILLER STREET PYRMONT NSW 2009
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Project	**E24614.E10 2-60 Cumberland St, The Rocks**
Order Number	**E24614.E10**
Samples	73

LABORATORY DETAILS

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Email	au.environmental.sydney@sgs.com
SGS Reference	**SE206641 R0**
Date Received	22 May 2020
Date Reported	01 Jun 2020

COMMENTS

All the laboratory data for each environmental matrix was compared to SGS' stated Data Quality Objectives (DQO). Comments arising from the comparison were made and are reported below.

The data relating to sampling was taken from the Chain of Custody document.
This QA/QC Statement must be read in conjunction with the referenced Analytical Report.
The Statement and the Analytical Report must not be reproduced except in full.

All Data Quality Objectives were met (within the SGS Alexandria Environmental laboratory).

SAMPLE SUMMARY

HOLDING TIME SUMMARY

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SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Fibre ID in bulk materials — **Method: ME-(AU)-[ENV]AN602**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
A01	SE206641.001	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A02	SE206641.002	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A03	SE206641.003	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A04	SE206641.004	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A05	SE206641.005	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A06	SE206641.006	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A07	SE206641.007	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A08	SE206641.008	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A09	SE206641.009	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A10	SE206641.010	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A11	SE206641.011	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A12	SE206641.012	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A13	SE206641.013	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A14	SE206641.014	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A15	SE206641.015	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A16	SE206641.016	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A17	SE206641.017	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A18	SE206641.018	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A19	SE206641.019	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A20	SE206641.020	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A21	SE206641.021	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A22	SE206641.022	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A23	SE206641.023	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A24	SE206641.024	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A25	SE206641.025	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A26	SE206641.026	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A27	SE206641.027	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A28	SE206641.028	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A29	SE206641.029	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A30	SE206641.030	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A31	SE206641.031	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A32	SE206641.032	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A33	SE206641.033	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A34	SE206641.034	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A35	SE206641.035	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A36	SE206641.036	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A37	SE206641.037	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A38	SE206641.038	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A39	SE206641.039	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A40	SE206641.040	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A41	SE206641.041	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A42	SE206641.042	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A43	SE206641.043	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A44	SE206641.044	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A45	SE206641.045	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A46	SE206641.046	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A47	SE206641.047	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A48	SE206641.048	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A49	SE206641.049	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A50	SE206641.050	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A51	SE206641.051	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A52	SE206641.052	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A53	SE206641.053	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A54	SE206641.054	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A55	SE206641.055	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A56	SE206641.056	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A57	SE206641.057	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A58	SE206641.058	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A59	SE206641.059	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A60	SE206641.060	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020

HOLDING TIME SUMMARY

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SGS holding time criteria are drawn from current regulations and are highly dependent on sample container preservation as specified in the SGS "Field Sampling Guide for Containers and Holding Time" (ref: GU-(AU)-ENV.001). Soil samples guidelines are derived from NEPM "Schedule B(3) Guideline on Laboratory Analysis of Potentially Contaminated Soils". Water sample guidelines are derived from "AS/NZS 5667.1 : 1998 Water Quality - sampling part 1" and APHA "Standard Methods for the Examination of Water and Wastewater" 21st edition 2005.

Extraction and analysis holding time due dates listed are calculated from the date sampled, although holding times may be extended after laboratory extraction for some analytes. The due dates are the suggested dates that samples may be held before extraction or analysis and still be considered valid.

Extraction and analysis dates are shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria. If the sampled date is not supplied then compliance with criteria cannot be determined. If the received date is after one or both due dates then holding time will fail by default.

Fibre ID in bulk materials (continued) — **Method: ME-(AU)-[ENV]AN602**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
A61	SE206641.061	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A62	SE206641.062	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A63	SE206641.063	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A64	SE206641.064	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A65	SE206641.065	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020
A66	SE206641.066	LB200762	19 May 2020	22 May 2020	19 May 2021	29 May 2020	19 May 2021	30 May 2020

Metals in Paint by ICPOES — **Method: ME-(AU)-[ENV]AN065/AN320**

Sample Name	Sample No.	QC Ref	Sampled	Received	Extraction Due	Extracted	Analysis Due	Analysed
P01	SE206641.067	LB200524	19 May 2020	22 May 2020	15 Nov 2020	27 May 2020	15 Nov 2020	28 May 2020
P02	SE206641.068	LB200524	19 May 2020	22 May 2020	15 Nov 2020	27 May 2020	15 Nov 2020	28 May 2020
P03	SE206641.069	LB200524	19 May 2020	22 May 2020	15 Nov 2020	27 May 2020	15 Nov 2020	28 May 2020
P04	SE206641.070	LB200524	19 May 2020	22 May 2020	15 Nov 2020	27 May 2020	15 Nov 2020	28 May 2020
P05	SE206641.071	LB200524	19 May 2020	22 May 2020	15 Nov 2020	27 May 2020	15 Nov 2020	28 May 2020
P06	SE206641.072	LB200524	19 May 2020	22 May 2020	15 Nov 2020	27 May 2020	15 Nov 2020	28 May 2020
P07	SE206641.073	LB200524	21 May 2020	22 May 2020	17 Nov 2020	27 May 2020	17 Nov 2020	28 May 2020

SURROGATES

SE206641 R0

Surrogate results are evaluated against upper and lower limit criteria established in the SGS QA/QC plan (Ref: MP-(AU)-[ENV]QU-022). At least two of three routine level soil sample surrogate spike recoveries for BTEX/VOC are to be within 70-130% where control charts have not been developed and within the established control limits for charted surrogates. Matrix effects may void this as an acceptance criterion. Water sample surrogate spike recoveries are to be within 40-130%. The presence of emulsions, surfactants and particulates may void this as an acceptance criterion.

Result is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No surrogates were required for this job.

Blank results are evaluated against the limit of reporting (LOR), for the chosen method and its associated instrumentation, typically 2.5 times the statistically determined method detection limit (MDL).

Result is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

Sample Number	Parameter	Units	LOR

Duplicates are calculated as Relative Percentage Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No duplicates were required for this job.

Laboratory Control Standard (LCS) results are evaluated against an expected result, typically the concentration of analyte spiked into the control during the sample preparation stage, producing a percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA /QC plan (Ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended dagger symbol (†) when outside suggested criteria.

No laboratory control standards were required for this job.

Matrix Spike (MS) results are evaluated as the percentage recovery of an expected result, typically the concentration of analyte spiked into a field sub -sample during the sample preparation stage. The original sample's result is subtracted from the sub-sample result before determining the percentage recovery. The criteria applied to the percentage recovery is established in the SGS QA/QC plan (ref: MP-(AU)-[ENV]QU-022). For more information refer to the footnotes in the concluding page of this report.

Recovery is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spikes were required for this job.

MATRIX SPIKE DUPLICATES

SE206641 R0

Matrix spike duplicates are calculated as Relative Percent Difference (RPD) using the formula: RPD = | OriginalResult - ReplicateResult | x 100 / Mean

The original result is the analyte concentration of the matrix spike. The Duplicate result is the analyte concentration of the matrix spike duplicate.

The RPD is evaluated against the Maximum Allowable Difference (MAD) criteria and can be graphically represented by a curve calculated from the Statistical Detection Limit (SDL) and Limiting Repeatability (LR) using the formula: MAD = 100 x SDL / Mean + LR

Where the Maximum Allowable Difference evaluates to a number larger than 200 it is displayed as 200.

RPD is shown in **Green** when within suggested criteria or **Red** with an appended reason identifer when outside suggested criteria. Refer to the footnotes section at the end of this report for failure reasons.

No matrix spike duplicates were required for this job.

Samples analysed as received.

Solid samples expressed on a dry weight basis.

QC criteria are subject to internal review according to the SGS QA/QC plan and may be provided on request or alternatively can be found here: https://www.sgs.com.au/~/media/Local/Australia/Documents/Technical Documents/MP-AU-ENV-QU-022 QA QC Plan.pdf

*	NATA accreditation does not cover the performance of this service.
**	Indicative data, theoretical holding time exceeded.
-	Sample not analysed for this analyte.
IS	Insufficient sample for analysis.
LNR	Sample listed, but not received.
LOR	Limit of reporting.
QFH	QC result is above the upper tolerance.
QFL	QC result is below the lower tolerance.

①	At least 2 of 3 surrogates are within acceptance criteria.
②	RPD failed acceptance criteria due to sample heterogeneity.
③	Results less than 5 times LOR preclude acceptance criteria for RPD.
④	Recovery failed acceptance criteria due to matrix interference.
⑤	Recovery failed acceptance criteria due to the presence of significant concentration of analyte (i.e. the concentration of analyte exceeds the spike level).
⑥	LOR was raised due to sample matrix interference.
⑦	LOR was raised due to dilution of significantly high concentration of analyte in sample.
⑧	Reanalysis of sample in duplicate confirmed sample heterogeneity and inconsistency of results.
⑨	Recovery failed acceptance criteria due to sample heterogeneity.
⑩	LOR was raised due to high conductivity of the sample (required dilution).
†	Refer to relevant report comments for further information.