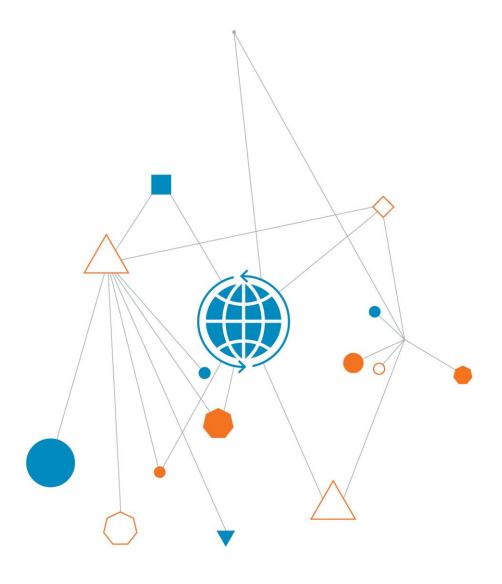


### Mirvac Real Estate Pty Ltd

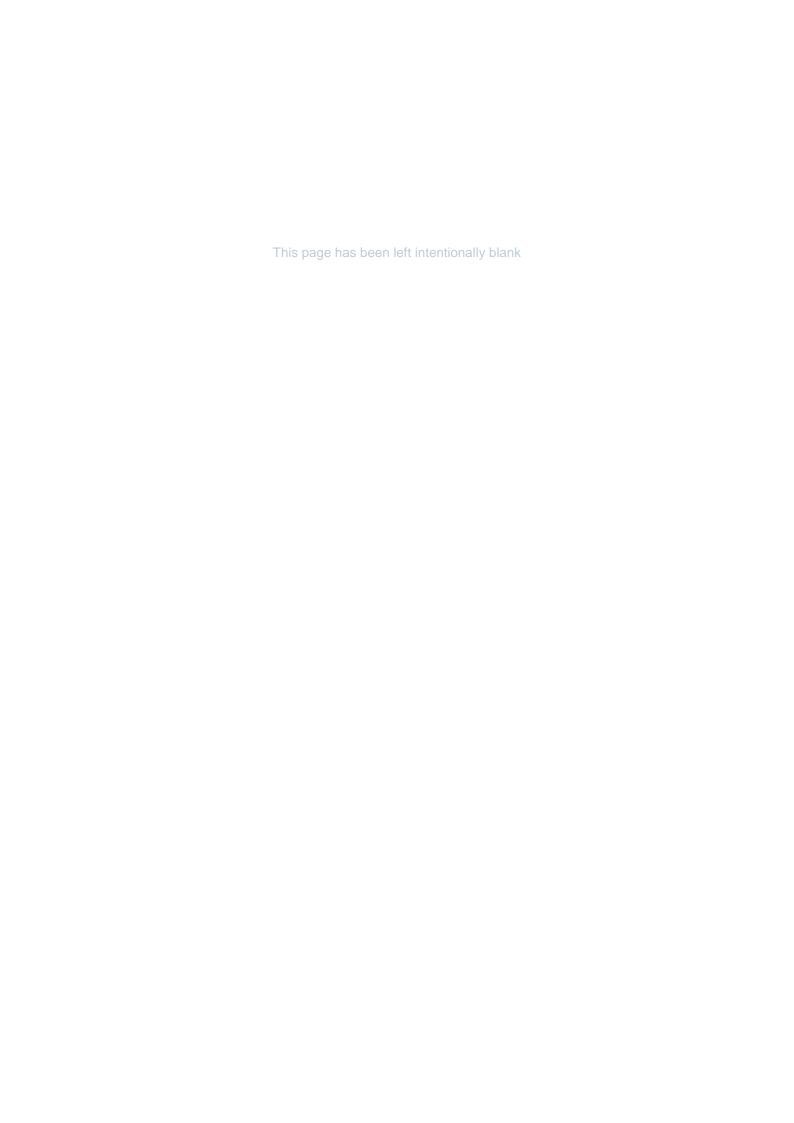
# **Asbestos and Hazardous Materials Re-Inspection**

36 Gow Street Padstow NSW 2211

3 December 2019



When you think with a global mind problems get smaller



### **Asbestos and Hazardous Materials Re-Inspection**

Prepared for Mirvac Real Estate Pty Ltd

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### Limitations

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

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

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

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

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

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

Hazardous Materials surveys are restricted to areas that are reasonably accessible during the survey, with respect to the following:

- without contravention of relevant statutory requirements or codes of practice;
- · without placing the surveyor at undue risk;
- without dismantlement or damage to installed fixtures and fittings, plant, electrical equipment, machinery; and
- without dismantlement, demolition or damage to finishes and structure.

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

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

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

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

presumed that materials similar in appearance to those tested and found not to contain asbestos also do not contain asbestos.

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

Notably, with some asbestos containing bulk material it can be very difficult to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

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

Internal building materials should be assumed to contain asbestos and lead-based paint, and any fluorescent lights inside the buildings should be assumed to contain PCB capacitors until otherwise assessed.

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

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

- Risers / Ceiling, Floor or Wall Cavities, and Voids may be completely blocked or bricked in. Occasionally may only be detected if shown on building construction plans or during demolition
- Columns / Structural Elements these will not be penetrated if doing so will damage the stability of the building.
- Roofs / External Areas these will not be checked if safe access cannot be achieved.
- Confined Spaces these will not be checked if safe access cannot be achieved.
- Restricted Access areas subject to restricted access will not be checked unless special arrangements have been made through the client within the remit of the survey.
- Lifts / Shafts these will not be checked for safety reasons unless a lift engineer accompanies the surveyor.
- Live Plant or Electrical Installations live electrical installations including fuse boxes, electrical control cabinets, distribution panels etc. are not routinely checked for safety reasons. Electrical equipment will only be examined if it is locked off and an isolation certificate has been issued. Under exceptional circumstances, when arranged by the client, examination of non-isolated equipment may take place under the supervision of an electrician.
- Boilers may contain asbestos internally, which is not visible or accessible until the unit is dismantled. Note: Where a bulk sample is obtained from a non-dismantled boiler it should not be regarded as definitive of all materials contained within the boiler's structure.
- Live Refrigerators / Cold Rooms / Mechanical Equipment / Heater Units / Kilns may contain asbestos internally, which is not visible or accessible until the unit is isolated and dismantled
- Safes the walls of some safes cannot be penetrated even where access arrangements have been made.

Coffey Services Australia Pty Ltd ABN: 55 139 460 521

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# **Executive Summary**

Coffey Services Australia Pty Ltd (Coffey) conducted an Asbestos and Hazardous Materials Re-Inspection of 36 Gow Street, Padstow NSW 2211 on the 5<sup>th</sup> of September 2019. The survey was undertaken to facilitate the inspection of asbestos and other hazardous materials (HazMat) in accordance with the requirements of the NSW Code of Practice *How to Manage and Control Asbestos in the Workplace (2019)*, and relevant asbestos legislation.

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

This contract was completed by Coffey on the basis of a defined program of work and terms and conditions agreed with the Client. We confirm that in preparing this report we have exercised all reasonable skill and care bearing in mind the project objectives, the agreed scope of works and prevailing site conditions. The client should be made aware of the limitations of a survey being conducted in a destructive manner and is referred to in the above limitations.

From the site survey results, a register of asbestos has been produced, in accordance with the requirements of the relevant Regulations, Codes of Practice and Guidance Notes. During the audit conducted by Coffey, the following hazardous materials were noted:

#### **Asbestos Containing Materials (ACM)**

No ACM were identified or suspected at the time of the survey.

#### Synthetic Mineral Fibres (SMF)

The following SMF were identified or suspected at the time of the survey;

- Interior: fire pump room, ceiling suspected SMF containing insulation batts; and
- Exterior: substation, eaves suspected SMF containing insulation batts.

### Lead-Based Paint (LBP)

No Lead-Based Paint was identified or suspected to be present at the time of survey.

#### Polychlorinated Biphenyls (PCB)

No PCB's were identified or suspected to be present at the time of survey.

#### **Ozone Depleting Substances (ODS)**

No ODS's were identified or suspected to be present at the time of survey.

Coffey Services Australia Pty Ltd ABN: 55 139 460 521

### 1. Introduction

Coffey Services Australia Pty Ltd (Coffey) was engaged by Mirvac Real Estate Pty Ltd to conduct an Asbestos and Hazardous Materials Re-Inspection of the commercial office tower located at 36 Gow Street, Padstow NSW 2211.

Phoebe Quessy of Coffey carried out the inspection on the 5<sup>th</sup> September 2019, with the site contact providing access and information regarding the site and its history.

The assessment was conducted on the basis of the condition of the materials at the time of inspection and the future anticipated activities at the site.

No inspection can be guaranteed to locate all asbestos and hazardous materials in a specific location and therefore this assessment cannot be regarded as absolute. Planned and future demolition to site structures may expose situations which were concealed or otherwise impractical to access during this assessment.

### 1.1. Background.

Coffey understands that Mirvac Real Estate Pty Ltd is requesting this inspection to maintain and update records for the site in accordance with NSW *Work Health and Safety Regulation 2017* and the NSW Code of Practice *How to Manage and Control Asbestos in the Workplace* (2019).

### 1.2. Site Description

The hazardous materials re-inspection consisted of an industrial warehouse located at 36 Gow Street, Padstow NSW 2211. It is a 2 level office building with a warehouse.

Table 1: Site Information				
Site:	36 Gow Street, Padstow NSW 2211			
Age (Circa):	1996	External walls:	Concrete, steel and glass	
Approximate area:	38,000 m <sup>2</sup>	Internal walls:	Concrete	
Levels:	2	Ceiling:	Concrete, plasterboard & compressed ceiling tiles	
Roof type:	Metal	Floor and coverings:	Concrete, tiles & carpet	

### 1.3. Scope

The scope of work required Coffey to:

- Conduct a full Asbestos and Hazardous Materials (HazMat) re-inspection survey of all reasonably accessible areas within the site, to locate Asbestos Containing Materials (ACM), Synthetic Mineral Fibre (SMF), Lead-Based Paint systems (LBP), Polychlorinated Biphenyls in light capacitors (PCB) and Ozone Depleting Substances (ODS) in accessible areas;
- Collect representative samples of any suspect ACM and/or lead paint materials (where
  accessible) previously overlooked or missed and submit samples for laboratory analysis. ODS,
  PCB and SMF were identified on a visual basis only;
- Document the details of materials identified including photographs of any samples taken;
- Record, collate and report the findings; and
- Deliver one electronic report to the client.

Tenanted areas of the site were not included in the scope of works.

## 2. Methodology

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

The assessment involved the onsite investigation for the presence of Asbestos Containing Materials (ACM), Synthetic Mineral Fibres (SMF), Lead Based Paint systems (LBP), Polychlorinated Biphenyls (PCB) and Ozone Depleting Substances (ODS – (CFC, HCFC, HFC). Information was collected from the site owners/occupiers/tenants on relevant issues pertaining to the site. Based on the available data and the status at the time of inspection, where items were identified, visual and/or analytical characterisation (where required) was performed and reported in the Asbestos and Hazardous Materials Register (refer **Appendix B**).

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

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

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with relevant Statutory Regulations, Codes of Practice and Coffey Environments Work Instructions. Laboratories undertaking analysis are appropriately NATA certified for the analysis conducted.

The presence of asbestos in bulk samples is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques. Where asbestos was found to exist, a risk assessment was conducted on each item and a priority rating applied. This was conducted in accordance with the protocols described in **Section 5.1: Actions for Asbestos Materials.** 

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

# 3. Assessment Findings

The findings of this assessment are presented in tabulated format in **Appendix B: Asbestos and Hazardous Materials Register** of this assessment report. Hazardous building materials that have been photographed are shown in **Appendix A: Photographs**.

The following significant key findings are noted:

### 3.1. Hazardous Building Materials

### 3.1.1. Asbestos Containing Materials

No ACM were identified or suspected at the time of the survey.

### 3.1.2. Synthetic Mineral Fibres

The following SMF were identified or suspected at the time of the survey;

- Interior: fire pump room, ceiling suspected SMF containing insulation batts; and
- Exterior: substation, eaves suspected SMF containing insulation batts.

#### 3.1.3. Lead-Based Paint

No Lead-Based Paint was identified or suspected to be present at the time of survey.

### 3.1.4. Polychlorinated Biphenyls

No PCB's were identified or suspected to be present at the time of survey.

### 3.1.5. Ozone Depleting Substances

No ODS's were identified or suspected to be present at the time of survey.

### 3.2. Areas of No Access

Where Areas of No Access have been identified it should be presumed that hazardous materials are present in these areas until further investigation can confirm or refute the presence.

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

Building service and building core areas were accessible at the time of the survey, excluding the limited access areas listed below.

#### **AREAS OF NO ACCESS**

The following areas were not accessible or had limited access at the time of survey:

- Tenanted areas throughout;
- Within live electricals and machinery; and
- Confined space areas.

### 4. Recommendations

The recommendations, conclusions or stability of hazardous materials contained in this report shall not abrogate a person of their responsibility to work in accordance with Statutory Requirements, Codes of Practice, Guidelines, Safety Data Sheets, Work Instructions or reasonable work practices.

### 4.1. Asbestos Containing Materials

Please note the survey undertaken is not considered a pre-demolition survey; an intrusive predemolition survey must be undertaken prior to refurbishment or demolition. During future demolition works, if any materials that are not referenced in this report and are suspected of containing asbestos are encountered, then works must cease and an asbestos hygienist should be notified to determine whether the material contains asbestos.

### 4.2. Synthetic Mineral Fibres

Un-bonded or bonded SMF that has severely deteriorated has the potential of becoming airborne. Health effects that may occur with exposure to certain SMF materials include; irritation of the skin, eyes and upper respiratory tract. As such removal and replacement would be the preferred option if such materials were found in accessible areas or air conditioning systems.

The selection of the most appropriate control measure should be determined from risk assessments and detailed knowledge of the workplace and activities. The following general principles may be applied:

- If the SMF is un-bonded or deteriorated, in a poor/unstable condition and accessible with risk to health from exposure, immediate access restrictions should be applied and removal is required as soon as practicable;
- If the SMF is un-bonded or deteriorated, in a poor/unstable condition but in inaccessible areas (i.e. Ceiling space), removal is preferred. However, if removal is not immediately practicable, short-term control measures (i.e. restrict access, or provide personal protective equipment to personnel required to access the area etc.) may be employed until removal can be facilitated;
- If the SMF is bonded and in a poor/unstable condition; minimising disturbance and removal or encapsulation may be appropriate controls; and
- Prior to any demolition, partial demolition, renovation or refurbishment, synthetic mineral fibre
  materials likely to be disturbed by those works should be removed in accordance with the NOHSC
  Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006 (1990)].

Further assessment of risk through airborne fibre monitoring can assist with decisions on the most appropriate, and urgency of, control measures.

### 4.3. Training

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

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

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

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

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

### 5. Risk Assessment

From the findings of the hazardous materials survey, an individual risk assessment is conducted on each ACM. The following figure outlines the general likelihood of fibre release potential (Source: the NSW Code of Practice: *How to Manage and Control Asbestos in the Workplace* (2019).

### Higher likelihood of airborne fibres

Asbestos-contaminated dust (including dust left in place

after past asbestos removal)

Sprayed (limpet) coatings/loose fill

Lagging and packings (that are not enclosed)

Asbestos insulating board

Rope and gaskets

Millboard and paper

Asbestos cement

Floor tiles, mastic and roof felt

Decorative paints and plasters

Lower likelihood of airborne fibres

Coffey adopts the following risk assessment algorithm in order to assess the risks associated with individual asbestos-containing materials identified.

### **ASBESTOS REGISTER SECTION**

### Friable

Variable	Score	Description
Friability	· · ·	Asbestos cement debris, or material which when dry may become crumbled, pulverised or reduced to powder by hand pressure.
	N	Bonded i.e. non-friable material

#### **Materials Assessment**

Variables	Scores	Examples of Score Descriptions
	0	No asbestos
	1	Chrysotile only
Asbestos Type	2	Amphibole asbestos (excluding crocidolite)
	3	Crocidolite
	0	No asbestos detected
	1	Bonded asbestos in good condition
Product Type	2	Friable asbestos in good condition or cement in poor condition
	3	Friable asbestos in poor condition
	0	No visible damage
	1	Minor scratches or mark, broken edges
Extent of Damage	2	Significant breakage, many small areas of damage to friable material
	3	High damage, visible debris
	0	Bonded Asbestos including encapsulated asbestos cement
	1	Enclosed laggings, sprays and boards or bare cement
Surface Treatment	2	Bare board or encapsulated lagging/spray or cement debris
	3	Unsealed lagging/spray

#### **Location Assessment**

Variables	Scores	Examples of Score Descriptions
	0	Rare disturbance, e.g. little used store room
	1	Low disturbance, e.g. Office type activity
Occupant Activity	2	Periodic disturbance, e.g. industrial or vehicular activity which may contact ACMs
	3	High levels of disturbance e.g. fire door with AIB sheet in constant use
	0	Usually inaccessible or unlikely to be disturbed
Likelihood of	1	Minimal likelihood for disturbance
Disturbance	2	Likely disturbance
	3	Frequent disturbance
	0	Infrequent
Human Exposure	1	Monthly
Potential	2	Weekly
	3	Daily
	0	Minor disturbance (e.g. possibility of contact when gaining access)
	1	Low Disturbance (e.g. changing light bulbs in AIB ceiling).
Maintenance Activity	2	Medium disturbance (e.g. lifting one or two ceiling tiles to access a valve)
	3	High level of disturbance (e.g. moving a number of AIB ceiling tiles to replace a valve or for re-cabling)

### **Risk Score**

The asbestos-containing material risk score is a quantitative assessment determined by the sum of the scores based on the Materials and Location Assessments; i.e. Risk score = Material Score + Location Score (out of as possible 24).

Should no asbestos be detected then the register will indicate a risk score of 0.

Variable	Scores	Examples of Score Descriptions
	0 - 6	Very Low Risk - Action Score A4
71.10	7 - 9	Low Risk – Action Score A3
Risk Score	13 - 18	Medium Risk – Action Score A2
	19 - 24	High Risk – Action Score A1

#### OTHER HAZARDOUS MATERIALS REGISTER SECTION

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

#### Friable

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

#### **Material Assessment**

Variable	Score	Examples of Score Descriptions
	G	Good condition
Extent of Damage	Av	Average condition
	Р	Poor condition
	Υ	Sealed
Surface Treatment	Р	Part sealed
	N	Not sealed

#### **Location Assessment**

Variable	Score	Examples of Score Descriptions
	Н	High traffic area
Occupant Activity	М	Medium traffic area
	L	Low traffic area

### **Risk Score**

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

Variable	Score	Examples of Score Descriptions
	L	Low exposure risk
Risk Score	М	Medium exposure risk
	Н	High exposure risk

### 5.1. Actions for Asbestos Materials

Following the assessment for asbestos-containing materials an action score is assigned. For asbestos-containing materials this will be assigned according to the risk score associated with the material.

#### **Action Ratings**

		Restrict access and remove
	Action 1	As a guide, the material conforms to one, or more, of the following:
		Friable or poorly bonded to substrate, located in accessible areas
		Severely water damaged, or unstable
<b>A1</b>		Further damage or deterioration likely
		Friable asbestos material located in air conditioning ducting
		Asbestos debris and stored asbestos in reasonably accessible areas
		Post removal of A1 item, update Asbestos Materials Register and Asbestos Management Plan
	Action 2	Enclose, encapsulate or seal and Label – Re-inspect according to Asbestos Management Plan
		As a guide, the material conforms to one, or more, of the following:
		Damaged material
A2		In reasonably accessible area
72		Friable material or poorly bonded to substrate, with bonding achievable
		Possibility of disturbance through contact
		Possibility of deterioration caused by weathering
		Post encapsulation of A2 item, update Asbestos Materials Register and Asbestos Management Plan
	Action 3	Remove during refurbishment or maintenance and Label – Re-inspect according to Asbestos Management Plan
		As a guide, the material conforms to one, or more, of the following:
A3		Asbestos debris or stored material in rarely accessed areas
Α3		Further disturbance or damage unlikely other than during maintenance or service
		Readily visible for further assessment
		Asbestos CAF Gaskets
		Asbestos friction materials and brake linings
	Action 4	No remedial action, Label – Re-inspect according to Asbestos Management Plan
		As a guide, the material conforms to one, or more, of the following:
<b>A4</b>		Firmly bonded to substrate and readily visible for inspection
		Inaccessible and fully contained
		Stable and damage unlikely

#### **Acronyms**

ACM	Asbestos-containing material
NOHSC	National Occupational Health and Safety Commission
AMP	Asbestos Management Plan
V.O.	Visual Observation
NATA	National Association of Testing Authorities, Australia
PLM	Polarised Light Microscopy
SEM	Scanning Electron Microscopy
EDAX	Energy Dispersive X-ray Analysis
СН	Chrysotile Asbestos
CR	Crocidolite Asbestos
AM	Amosite Asbestos
NAD	No Asbestos Detected

### **Definitions**

Accredited Laboratory – means a testing laboratory accredited by NATA (National Association of Testing Authorities, Australia).

Air Monitoring – means atmospheric sampling for airborne contaminants including asbestos and SMF fibres or lead dust to assist in assessing human exposure and the effectiveness of control measures. This includes exposure monitoring, clearance monitoring (asbestos) and control monitoring.

Appropriately Qualified Person – means the person possesses the qualifications and experience necessary to find hazardous materials in a building.

Approved Respirator - A respirator which complies with AS/NZS 1716 - Respiratory Protective Devices.

Approved Cleaner - Vacuum cleaning equipment that passes all extracted air through a High Efficiency Particulates Air (HEPA) filter before the air is discharged into the atmosphere and conforms to the relevant requirements of the AS 3544 - Industrial Vacuum Cleaners for Particulates.

Asbestos – fibrous form of those mineral silicates that belong to the serpentine or amphibole groups of rock-forming minerals, including actinolite, amosite (brown asbestos), anthophyllite, chrysotile (white asbestos), crocidolite (blue asbestos) and tremolite.

Asbestos-containing Material (ACM) – means any material, object, product or debris containing asbestos.

Asbestos Removalist – means a person whose business or undertaking includes asbestos removal work or a self-employed person whose work includes asbestos removal work.

Asbestos Removal Control Plan – A site specific document to be prepared by the removal contractor based on the information in the National Code of Practice How to Safely Remove Asbestos (Safe Work Australia 2019).

Asbestos Work - means work undertaken in connection with a construction work process in which exposure to asbestos may occur and includes any work process involving the use, application, removal, mixing or other handling of asbestos or asbestos-containing material.

Asbestos Removal Work – means work undertaken to remove friable or bonded asbestos-containing material.

Asbestos Work Area – means the immediate area in which work on ACM is taking place. The boundaries off the work area must be determined by a risk assessment.

Bonded asbestos material - means any material (other than friable asbestos material) that contains asbestos.

Bonded asbestos removal work - means work in which bonded asbestos material is removed. repaired or disturbed.

Clearance Inspection – means a mandatory visual inspection carried out by a competent person to verify that an asbestos work area has been rendered free of visible asbestos contamination and is safe to be returned to normal use after work involving the disturbance of ACM has taken place. A clearance inspection must include a visual inspection, and may also include clearance air monitoring and/or settled dust sampling.

Clearance Monitoring – means air monitoring using static or positional samples to measure the level of airborne aspectos fibres in an area following work on ACM. An area is cleared when the level of airborne asbestos fibres is measured as being below eth clearance standard of 0.01 fibres/ml.

Construction Work - include all work performed in or in connection with the installation, erection, repair, cleaning, painting, renewal, renovation, dismantling, maintenance, ornamentation or demolition of buildings, ships, structures, pipes, plant, machinery, parts, artefacts, appliances, or tools or parts

Control Actions - In the process of implementing hazardous building materials management, it is fundamental that any identified situations have control actions determined to prevent personnel from being placed at risk.

Control Monitoring - means air monitoring using static or positional to measure the level of airborne asbestos fibres in an area during work on ACM or airborne lead dust in an area of lead paint removal. Control monitoring is designed to assist in assessing the effectiveness of control measures. Its results are not representative of actual occupational exposures and should not be used for that purpose.

Exposure Standard (TWA) - represent the National Occupational Health and Safety Commission (NOHSC) maximum exposure level by inhalation of airborne concentration of atmospheric lead over an eight-hour day, for a five-day working week, over an entire working life and expressed as 8-hour TWA (Time weighed average). The TWA do not represent 'no-effect' levels which guarantee protection to every worker.

Friable Asbestos-containing Material – means asbestos-containing material that, when dry, is or may become crumbled, pulverised or reduced to powder by hand pressure.

Hazard - means any matter, thing, process, or practice that may cause death, injury, illness or disease.

HEPA - High Efficiency Particulate Air. A filtering system capable of trapping and retaining at least 99.97 percent of all monodispersed particles of 0.3 micron in diameter or larger.

Membrane Filter Method - is the technique outlined in the NOHSC Guidance Note on the Membrane Filter Method for Estimating Method Airborne Asbestos Fibres 2nd Edition [NOHSC:3003 (2005)]. Coffey

SYDEN228628 3 December 2019 National Association of Testing Authorities, Australia (NATA) – the organisation that approves the method of sampling for airborne asbestos fibres, bulk sample analysis of asbestos-containing materials and hazardous materials inspections.

NOHSC - National Occupational Health and Safety Commission.

PPE/RPE - Personal / Respiratory Protective Equipment.

PM – Project Manager of the asbestos removal job. If a Principal Contractor has been appointed the Project Manager of the Principal Contractor, if no PM appointed then the owner is the Project Manager.

Person in charge of area - The person in charge of the building or area affected by the asbestos removal.

Restricted Area - A location requiring an Access/Work Permit because unprotected activity to undertake the intended purpose may expose a person to hazardous respirable (airborne) asbestos fibre. For example: Drilling a switch board containing asbestos; entry to a ceiling space containing asbestos or lead dust; entry to a riser shaft containing asbestos; access onto a fragile asbestos cement roof; a cupboard containing asbestos pipe lagging.

Risk – means the likelihood of a hazard causing harm to a person.

Safe Work Australia - An independent statutory agency responsible to improve occupational health and safety and workers' compensation arrangements across Australia.

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Department of Industrial Resources (DoIR) Guidance for Upstream Petroleum on the National Ban on Asbestos of 31 December 2003.

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Code of Practice: How to Safely Remove Asbestos, (2019)

Work Health and Safety Act (2011) and Regulations (2017) (Commonwealth, NSW, ACT, NT & QLD)

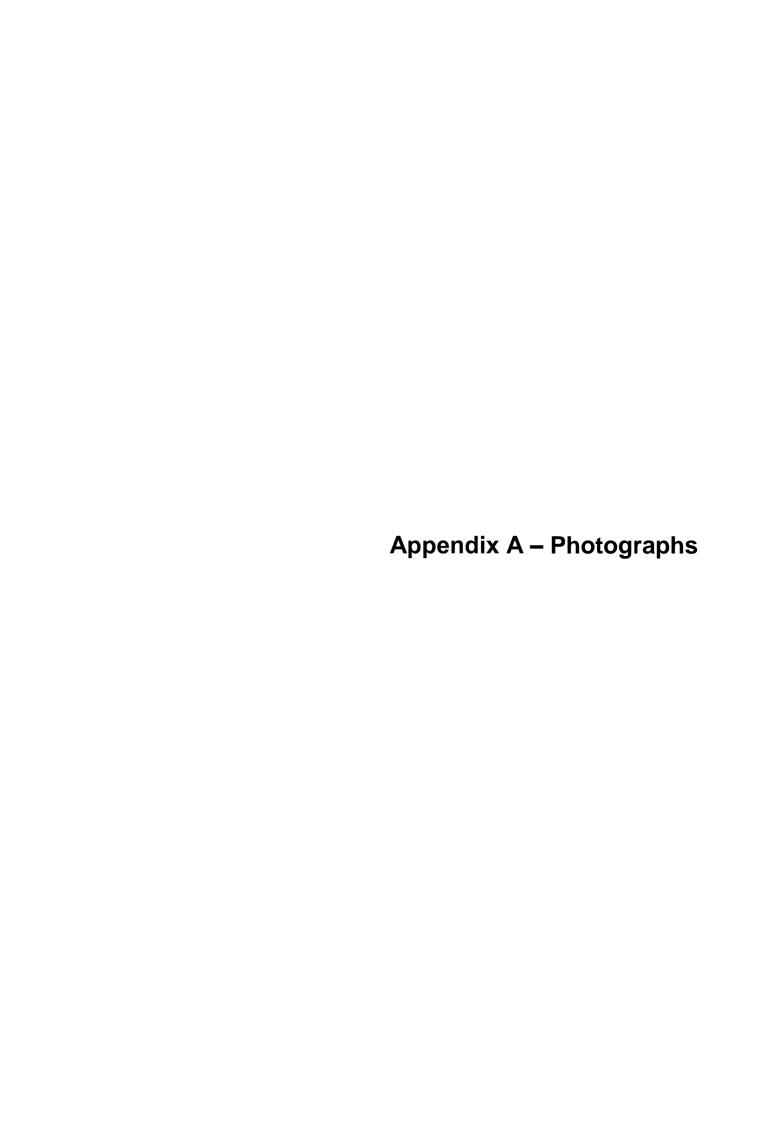
Occupational Health and Safety Act 2004 and Regulations 2017 (VIC),

Workplace Health and Safety Act 2012 and Regulations 2012 (TAS)

Amendment to the Customs (Prohibited Imports) Regulations 1956 - Regulation 4C – Importation of Asbestos – Australian Customs Notice No. 2009/30. – August 2009.

AS 1319-1994 Safety signs for the occupational environment.

Code of Practice: Demolition Work 2019.



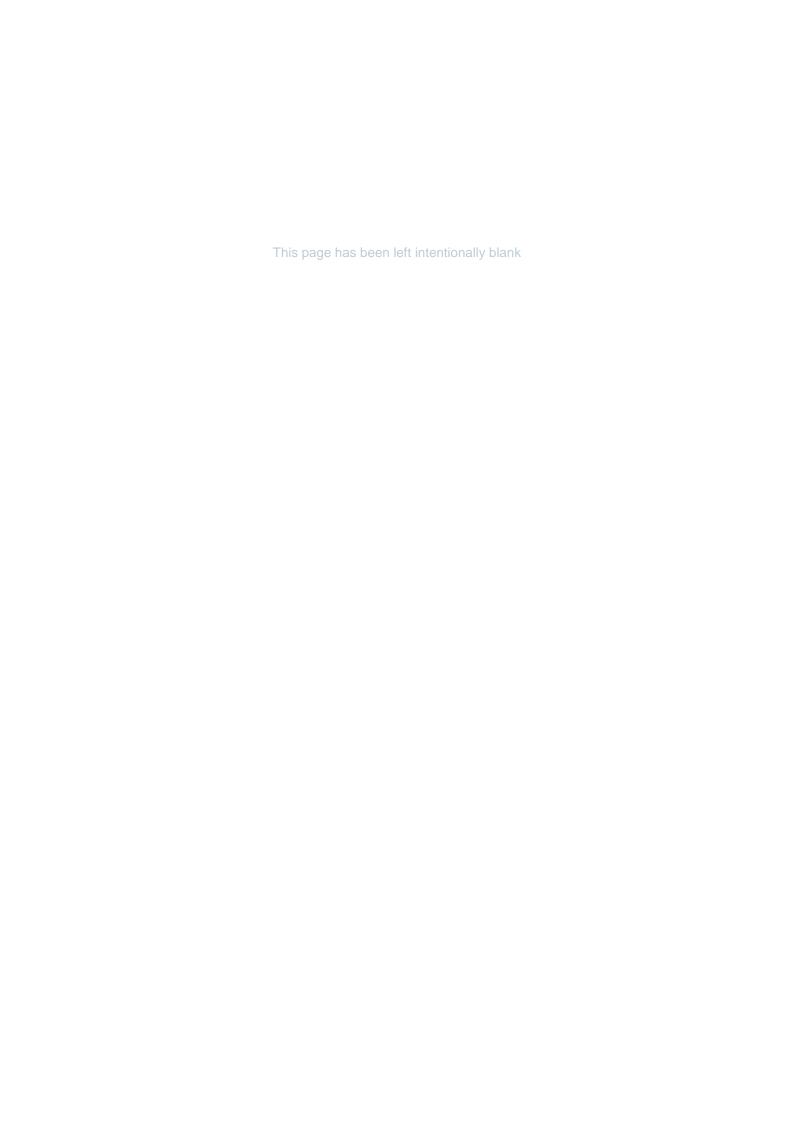




Photo 1 Exterior: carpark in front of office building, adjacent main carpark entrance, pit – non asbestos containing fibre cement pit lining.

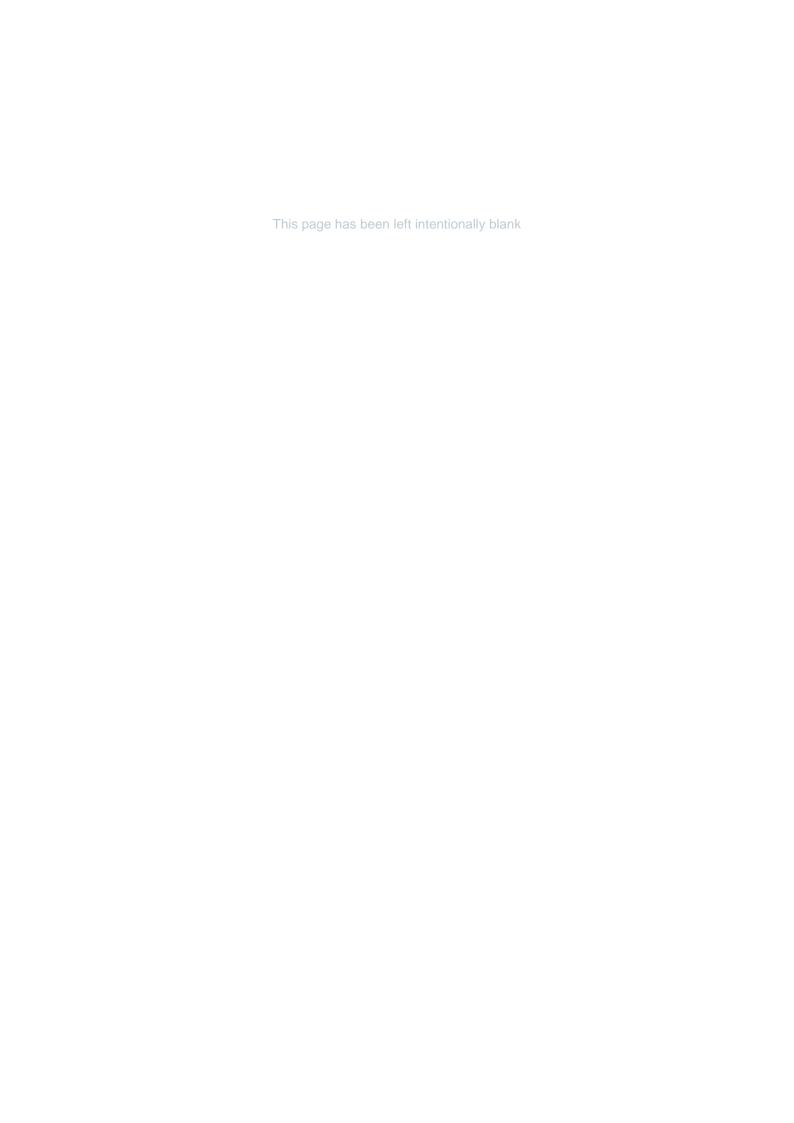


Photo 2 Exterior: Fire doors throughout – no asbestos suspected.



Photo 3 Exterior: substation, eaves – suspected SMF containing insulation.

Appendix B – Asbestos and Hazardous Materials Register



Coffey Services Australia Pty Ltd. Level 19, Tower B, Citadel Towers 799 Pacific Highway, Chatswood NSW 2067

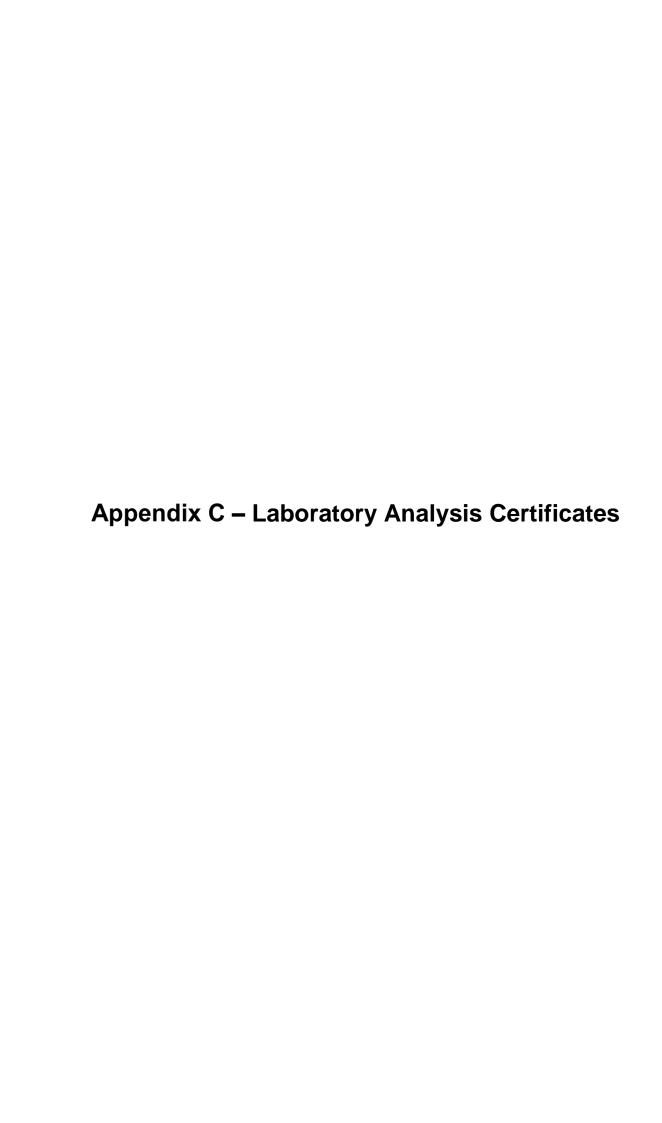
Client: Mirvac Real Estate

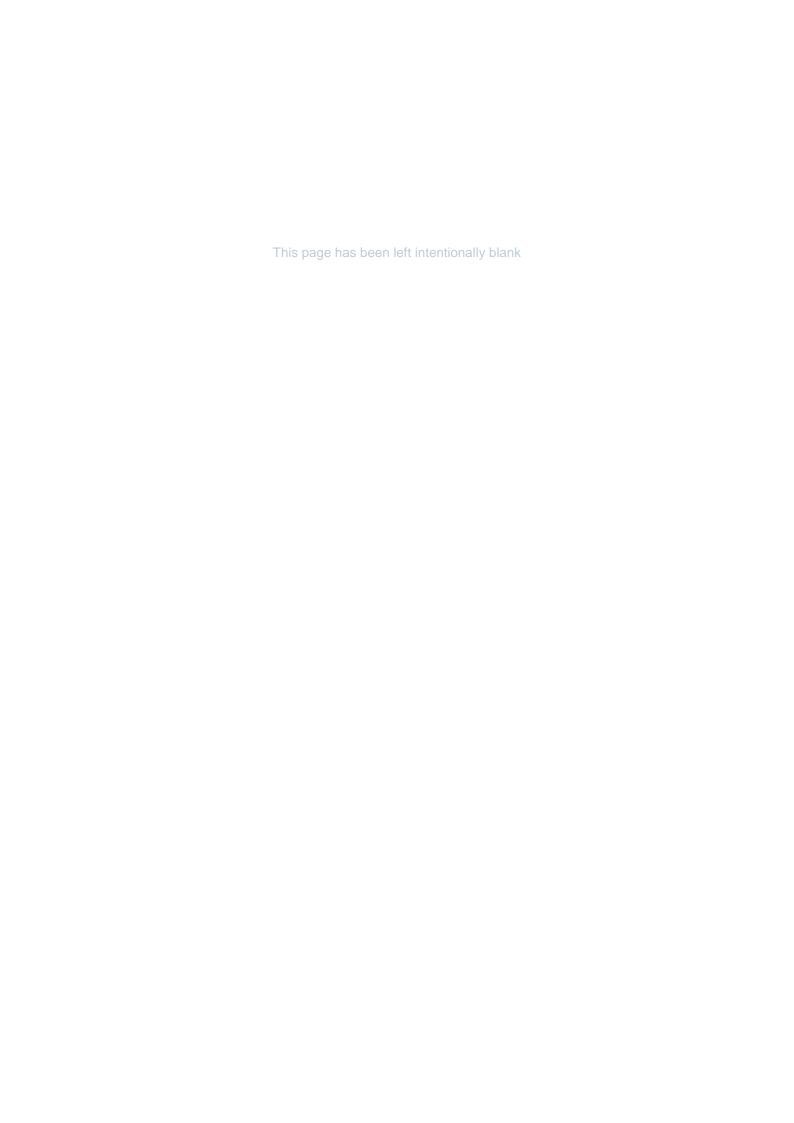
Site Name: 36 Gow Street

Site Address: 36 Gow Street, Padstow NSW 2211

Job No: SYDEN228268

Onerit: Will Ve	Siletit. Will vac Neal Estate Sile Name. 30 dow Street				Site Address. 30 GOW Street, Fadstow NSW 2211								2211		300 NO. 31 DEN220200					
Area / Level	Room & Location	Feature	Item Description	Hazard Type	Sample No.	Sample Status	Friable	Asbestos Type	Product Type	Extent of Damage	Surface Treatment	Occupant Activity	Likelihood of Disturbance	Exposure Potential	Maintenance Activity	Risk Score	Action	Recommendations & Comments Quanti	Reinspect Date	Photo No.
Exterior	Carpark infront of office building, adjacent main carpark entrance	Pit	Moulded fibre cement	Asbestos	A3511	No Asbestos Detected	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Interior	Throughout	Fire door - single	Fire door core	Asbestos	Visual Observation	None Suspected	-	-	-	-	-	-	-	-	-	-	-		-	2
Interior	Fire pump room	Ceiling	Insulation batts	SMF	Visual Observation	Suspected SMF	NA	NA	NA	Good	Sealed	Low	NA	NA	NA	Low	-	-	-	-
Exterior	Substation	Eaves	Insulation	SMF	Visual Observation	Suspected SMF	NA	NA	NA	Good	Sealed	Low	NA	NA	NA	Low	-	- -	-	3







#### **Bulk Identification Report**

**Job No:** 754-SYDEN228268 Mirvac Gow 11092019

Client: Mirvac Real Estate

Client Address: Level 28, 200 George Street,

Sydney NSW, 2000

Contact: Melanie Jones

E-mail: melanie.jones@mirvac.com

Date Sampled: 5/09/2019

Date Printed: 11/09/2019

Sampled By: Phoebe Quessy

Site: 36 Gow Street Padstow

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

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

Corporate Site No:16909

Asbestos in Bulk Samples and Non-homogenous Material

Test Method: Coffey analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in accordance with Coffey SOP

WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Coffey's NATA approved SOP WILAB1 sample retention periods are set at

1 month (no asbestos detected) and 3 months (asbestos detected).

Total Samples: 1

**Patricy Cortes** 

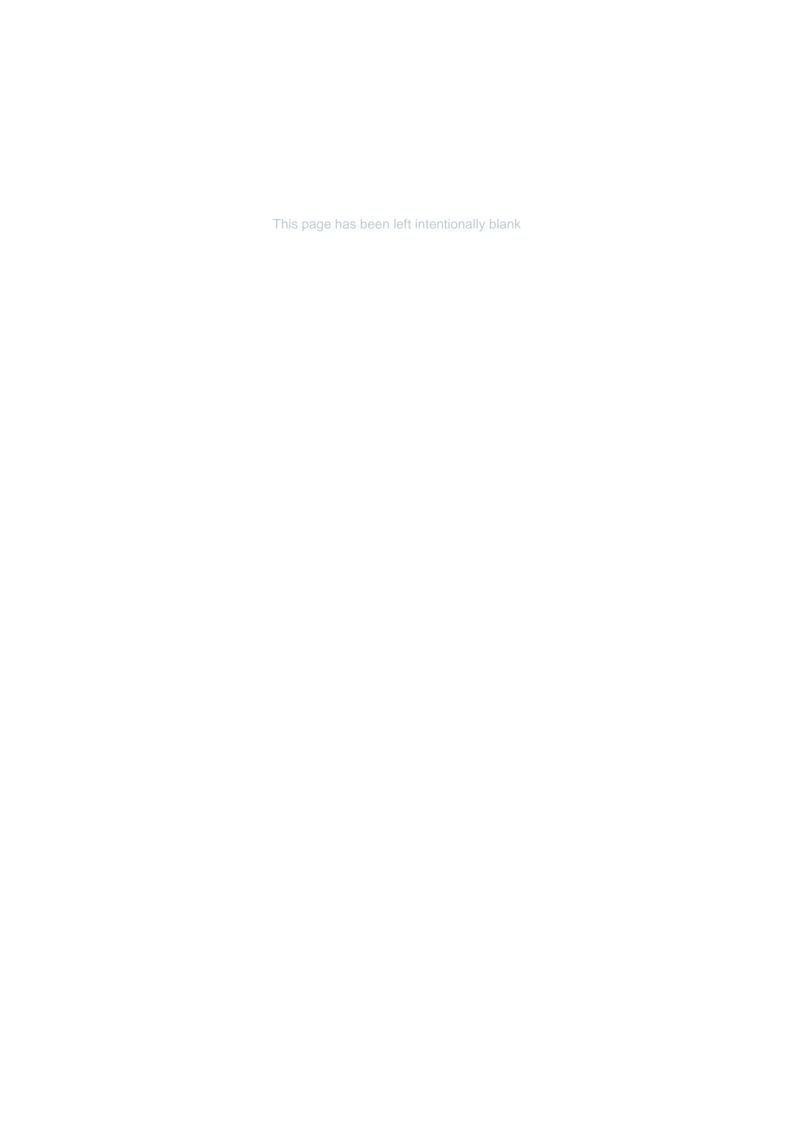
Approved Identifier and Signatory

Sample No.	Location & Description	Sample Size	Results	
A5311	Exterior, adjacent carpark entry, comms pit - Grey fibre cement sheet material	~ 30 x 20 x 5 mm	No asbestos fibres detected Organic fibres detected	

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Appendix D – Asbestos Legislative Requirements



#### LEGISLATIVE REQUIREMENTS — ASBESTOS

This document has been produced for information only and is under regular review due to frequent changes in legislation and guidance. It contains information relating to the column headings only and not, for instance, in relation to asbestos removal. It is the duty of employers, premise owners and controllers of premises etc. to ensure they are familiar with the latest applicable state legislation and guidance.

#### Introduction:

New (Harmonised) work health and safety laws commenced in the Commonwealth, New South Wales, Queensland, the Australian Capital Territory and the Northern Territory on 1 January 209 and in Tasmania and South Australia on 1 January 2013.

For links to these legislation and the most current information on the progress of legislative change for the other states, please access Safe Work Australia at:

http://www.safeworkaustralia.gov.au/Legislation/Pages/ModelWHSLegislation.aspx

#### **Transitional Arrangements**

Safe Work Australia has developed transitional principles that set out how arrangements under existing work health and safety legislation are intended to transition to the new harmonised system. There are transitional principles statements for both the WHS Act and Regulations. These are available from the Safe Work Australia site:

http://www.safeworkaustralia.gov.au/Legislation/transitional-arrangements/Pages/transitional-arrangements.aspx

Further, each state and territory work health and safety authority has also developed resources to assist their jurisdiction with the transition. If you have any questions regarding transitional arrangements in your jurisdiction please contact your regulator.

#### **Further Useful Resources**

Safe Work Australia publishes a range of guidance material to provide information on the model work health and safety laws and to assist compliance. This information can be accessed from:

http://www.safeworkaustralia.gov.au/Legislation/guidance-material/Pages/guidance-material.aspx

#### For More Information Contact:

Coffey Services Australia – Work Health and Safety Section:

Phone: 02 9406 1000 Email: WHS\_Support@Coffey.com Web: www.coffey.com

#### **LEGISLATIVE REQUIREMENTS — ASBESTOS**

This document has been produced for information only and is under regular review due to frequent changes in legislation and guidance. It contains information relating to the column headings only and not, for instance, in relation to asbestos removal. It is the duty of employers, premise owners and controllers of premises etc. to ensure they are familiar with the latest applicable state legislation and guidance.

STATE Primary Asbestos Legislation	Asbestos Survey Requirements	Asbestos Resurvey Requirements	Reporting Requirements	Management and Labelling/Signage Requirements	Other Requirements
COMMONWEALTH NEW SOUTH WALES QUEENSLAND NORTHERN TERRITORY TASMANIA SOUTH AUSTRALIA  Work Health and Safety Act 2011 (Cth, NSW, NSW, TAS, SA) Work Health and Safety Regulations 2017 (Cth, NSW, NSW, TAS, SA) Work Health and Safety (National Uniform Legislation) Act and Regulations 2017 (NT) Supported by: Code of Practice - How to Manage and Control Asbestos in the Workplace (2019) Code of Practice - How to Safely Remove Asbestos (2019)	A person conducting a business or undertaking (PCBU) must, for work place buildings/ structures that are constructed prior to December 31, 2003;  • survey to identify and locate any Asbestos-containing Materials (ACM; and,  • Compile and keep at the workplace a site specific Asbestos Register.  If ACM is identified at the work place, an Asbestos Management Plan (AMP) is to be compiled for the management of the identified ACM.  The Asbestos Register and the Asbestos Management Plan must be made available at the work place for workers, people intending to conduct business at the work place and to Health and Safety representatives.	Re-inspections of identified ACM are determined on a case-by-case basis depending on the risk situation and should be informed by and conducted in accordance with the site specific Asbestos Management Plan.	The site specific Asbestos Register needs to include the date, type, location, condition and ACM identified during the survey.  The Asbestos Register must be maintained and also updated if:  • the AMP is under review,  • further ACM is identified and/or,  • ACM is removed, disturbed or encapsulated.  The site specific AMP must include management actions and justifications, incident and emergency response plans and record details of works carried out that involves ACM at the work place.  The AMP must be maintained and updated:  • when the Asbestos Register is under review,  • if asbestos is removed, disturbed or encapsulated,  • if the AMP is no longer adequate for managing the ACM,  • if a Health and Safety Officer requests a review and/or at least  • Once every 5 years.	Generally, health monitoring is not required excepting for workers involved in asbestos removal works.  Training is required for persons involved in asbestos removal work or carrying out asbestos related works.  All identified ACM in a workplace has to be labelled to indicate clearly asbestos presence and location of the asbestos item.  Before refurbishment or demolition:  • ensure Asbestos Register is current  • undertake necessary inspections  A licenced asbestos removalist is required unless:  • ACM < 10m2 and non-friable and then by a competent person	WHS Regulation 419 requires A person conducting a business or undertaking (PCBU) must not carry out, or direct or allow a worker to carry out, work involving asbestos; excepting as is applicable:  • managing risk;  • sampling, identification and analysis;  • maintenance  • removal/disposal  • other exemptions per s.419 (3)