

Mirvac Real Estate Pty Ltd

Asbestos and Hazardous Materials Re-Inspection

380 St Kilda Road, Melbourne VIC 3000

4 February 2020



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Asbestos and Hazardous Materials Re-Inspection

Prepared for Mirvac Real Estate Pty Ltd

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4 February 2020

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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.

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Executive Summary

Coffey Services Australia Pty Ltd (Coffey) was commissioned by Mirvac Real Estate Pty Ltd to conduct an Asbestos and Hazardous Materials Re-Inspection of 380 St Kilda Road, Melbourne VIC 3000 on the 19th November 2019. The survey was undertaken to facilitate the inspection of asbestos and other hazardous materials (HazMat) in accordance with the requirements of the *VIC Compliance code: Managing asbestos in workplaces (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. In addition, the following report was used as a reference for the investigation: Asbestos Risk Assessment, Mirvac Real Estate Services, Royal Domain Building, 380 St Kilda Road, Melbourne, 68573, MM0371 (issue date September 2008).

During the audit conducted by Coffey, the following hazardous materials were noted:

Asbestos Containing Materials (ACM)

- Interior: carpark level 8, main switch room, switchboard suspected asbestos containing fuses;
- Interior: level 16, plant room, switchboard suspected asbestos containing fuses;
- Interior: all levels, throughout, fire doors suspected asbestos containing fire door core;
- Interior: lift motor room, switchboard suspected asbestos containing fuses; and
- Interior: lift motor room, lift motor suspected asbestos containing friction pads.

Synthetic Mineral Fibres (SMF)

- Interior: level 16, plant room, ceiling suspected SMF containing sarking insulation;
- Interior: level 16, plant room, throughout, air conditioning ductwork suspected SMF containing internal insulation material;
- Interior: level 16, plant room, diesel storage area, diesel pump suspected SMF containing internal insulation material: and
- Interior: all levels, air handling plant rooms, air conditioning ductwork suspected SMF containing internal insulation material.

Lead Based Paint (LBP)

Interior: level 16, throughout plant room, machinery – lead based blue paint (0.96%w/w).

Ozone Depleting Substances (ODS)

Interior: level 16, plant room, York chiller – ODS containing R22 Hydrochlorofluorocarbon (HCFC) refrigerant.

Coffey SYDEN228628 4 February 2020

Polychlorinated Biphenyls (PCB)

No PCB containing capacitors were identified or suspected to be present on site at the time of the survey.

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 multi-storey office building located at 380 St Kilda Road, Melbourne VIC 3000.

Jake Iskenderian and Phoebe Quessy of Coffey carried out the re-inspection on the 19th November 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. In addition, the following report was used as a reference for the investigation: Asbestos Risk Assessment, Mirvac Real Estate Services, Royal Domain Building, 380 St Kilda Road, Melbourne, 68573, MM0371 (issue date September 2008).

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 VIC Occupational Health and Safety Regulations 2017 and the VIC Compliance code: Managing asbestos in workplaces (2019).

1.2. Site Description

The hazardous materials re-inspection consisted of a multi-storey office building located at 380 St Kilda Road, Melbourne VIC 3000. The building was occupied at the time of the survey.

| Table 1: Site Information | | | | |
|---------------------------|---------------------------------------|-------------------------|--|--|
| Site: | 380 St Kilda Road, Melbourne VIC 3000 | | | |
| Age (Circa): | 1989 | External walls: | Concrete, steel and glass | |
| Approximate area: | 24,580 m ² | Internal walls: | Concrete, plasterboard & ceramic tiles | |
| Levels: | 16 levels | Ceiling: | Concrete, plasterboard & compressed ceiling tiles | |
| Roof type: | Concrete | Floor and coverings: | Concrete, ceramic 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.

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

- Interior: carpark level 8, main switch room, switchboard suspected asbestos containing fuses;
- Interior: level 16, plant room, switchboard suspected asbestos containing fuses;
- Interior: all levels, throughout, fire doors suspected asbestos containing fire door core;
- Interior: lift motor room, switchboard suspected asbestos containing fuses; and
- Interior: lift motor room, lift motor suspected asbestos containing friction pads.

3.1.2. Synthetic Mineral Fibres

- Interior: level 16, plant room, ceiling suspected SMF containing sarking insulation;
- Interior: level 16, plant room, throughout, air conditioning ductwork suspected SMF containing internal insulation material;
- Interior: level 16, plant room, diesel storage area, diesel pump suspected SMF containing internal insulation material: and
- Interior: all levels, air handling plant rooms, air conditioning ductwork suspected SMF containing internal insulation material.

3.1.3. Lead Based Paint

• Interior: level 16, throughout plant room, machinery – lead based blue paint (0.96%w/w).

3.1.4. Ozone Depleting Substances

Interior: level 16, plant room, York chiller – ODS containing R22 Hydrochlorofluorocarbon (HCFC) refrigerant.

3.1.5. Polychlorinated Biphenyls

No PCB containing capacitors were identified or suspected to be present on site at the time of the 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 office spaces throughout;
- Within live electricals and machinery;
- Lift motors; 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

Any Asbestos or other Hazardous Materials remaining in situ at the conclusion of the project will need to be detailed in the site-specific Hazardous Materials Register and Asbestos Management Plan as required by the *VIC Occupational Health and Safety Regulations 2017*.

Based on the findings of this hazardous materials survey, the recommendations regarding ACM are:

- ACM that has been identified in this survey must be removed prior to the commencement of general demolition works.
- When asbestos removal works are to be undertaken, the person that commissions the works must ensure that this is undertaken by an appropriately licensed asbestos contractor. The asbestos removal works must be conducted under controlled asbestos removal working conditions.
- When non-friable asbestos removal works are to be conducted within or adjacent to a highly sensitive area or public location, Coffey recommends that a hygienist who is independent of the asbestos contractor should be engaged to undertake airborne asbestos fibre monitoring along the boundary of the works and within the work area on completion of the works.
- If friable asbestos is identified during future works and is to be removed, a licensed asbestos
 assessor who is independent of the asbestos contractor <u>must</u> be engaged to:
 - Inspect the asbestos removal work area prior to commencement of the works;
 - Undertake asbestos fibre air monitoring before and during friable removal works in the surrounding areas and clearance asbestos fibre air monitoring at the conclusion of the asbestos removal work; and
 - Complete a visual inspection of the asbestos removal area and the area immediately surrounding it and ensure these are free from visible asbestos contamination.
- The qualified asbestos hygienist must provide a Clearance Certificate that documents the visual clearance inspection and the satisfactory completion of the asbestos removal works. The Clearance Certificate should state that all visible asbestos dust and debris resulting from the

asbestos removal process has been removed from the removal area(s) and from areas adjacent to the removal work area(s).

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. Lead Based Paint

The selection of the most appropriate control measure should be determined from risk assessments and detailed knowledge of the workplace and proposed activities. Removal or management is to be undertaken prior to any future demolition, partial demolition, renovation or refurbishment where lead-based paint is likely to be disturbed, in accordance with the Australian Standard (AS4361.2);2017, *Guide to Hazardous Paint Management Part 2: Lead paint in residential, public and commercial buildings.*

4.4. Ozone Depleting Substances

CFCs and HCFCs -Air-conditioning systems may contain refrigerants.

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

4.5. 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 (*VIC Compliance code: Managing asbestos in workplaces (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 | Y | 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 |
|------------|---------|---------------------------------|
| Risk Score | 0 - 6 | Very Low Risk - Action Score A4 |
| | 7 - 9 | Low Risk – Action Score A3 |
| | 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 | |
|----------|-------|---------------------------------------|--|
| | Y | Unsealed SMF | |
| Friable | N | Sealed SMF | |
| | NA | Applicable to ODS, PCB, Lead in paint | |

Material Assessment

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

Location Assessment

| Variable | Score | Examples of Score Descriptions |
|-------------------|-------|--------------------------------|
| Occupant Activity | н | High traffic area |
| | 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 |
|----|----------|--|
| А1 | 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 Further damage or deterioration likely |
| | | Asbestos debris and stored asbestos in reasonably accessible areas Post removal of A1 item, update Asbestos Materials Register and Asbestos |
| | | Enclose, encapsulate or seal and Label – Re-inspect according to Asbestos Management Plan |
| A2 | Action 2 | As a guide, the material conforms to one, or more, of the following: Damaged material In reasonably accessible area 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 |
| | | Remove during refurbishment or maintenance and Label – Re-inspect according to Asbestos Management Plan |
| A3 | Action 3 | As a guide, the material conforms to one, or more, of the following: Asbestos debris or stored material in rarely accessed areas 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 |
| | | No remedial action, Label – Re-inspect according to Asbestos Management Plan |
| Α4 | Action 4 | As a guide, the material conforms to one, or more, of the following: 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).

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Coffey
SYDEN228628
4 February 2020
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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 asbestos 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 thereof.

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)].

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.

6. Bibliography

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Department of Occupational Health, Safety and Welfare, Safe Handling of PCB in Fluorescent Light Capacitors - 1993

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

National Occupational Health and Safety Commission (NOHSC), Approved Criteria for Classifying Hazardous Substances, 1008 - 2002

National Occupational Health and Safety Commission Code of Practice for the Management and Control of Asbestos in the Workplace; [NOHSC: 2018 (2005)].

National Occupational Health and Safety Commission (NOHSC), Control of Inorganic Lead at Work: National Standard, 109 - 1994

National Occupational Health and Safety Commission (NOHSC), List of Designated Hazardous Substances, 10005 - 1999

National Institute for Occupational Safety and Health [NIOSH (U.S.A.)], Manual of Analytical Methods, Elements by ICP, Method 7300, 4th Edition, Issue 2 - 1994

National Occupational Health and Safety Commission (NOHSC), National Code of Practice for the Control and Safe Use of Inorganic Lead at Work, 2015 - 1994

National Occupational Health and Safety Commission (NOHSC), National Standard and National Code of Practice for Synthetic Mineral Fibre - May 1990

The National Model regulations for the Control of Workplace Hazardous Substances; [NOHSC: 1005 (1994)]

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

National Occupational Health and Safety Commission (NOHSC), Approved Criteria for Classifying Hazardous Substances, 1008 - 2002

VIC Compliance code: Managing asbestos in workplaces (2019)

VIC Compliance code: Removing asbestos in workplaces (2019)

Work Health and Safety Act and Regulations 2011 (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.

Compliance code: Demolition 2019

Appendix A – Photographs

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Photo 1 Interior: carpark level 8, main switch room, switchboard – suspected asbestos containing fuses.



Photo 2 Interior: level 16, plant room, partition walls to diesel room – non-asbestos containing fibre cement sheet.



Photo 3 Interior: level 16, plant room, pump machinery – non-asbestos containing gasket material.



Photo 4 Interior: level 16, plant room, internal walls – non-asbestos containing fibre cement sheet.



Photo 5 Interior: level 16, plant room, pump machinery – non-asbestos containing gasket material.



Photo 6 Interior: level 16, plant room, pump machinery – non-asbestos containing gasket material.



Photo 7 Interior: level 16, plant room, switchboard – suspected asbestos containing fuses.



Photo 8 Interior: level 16, plant room, partition walls to diesel storage area – non-asbestos containing fibre cement sheet.



Photo 9 Interior: level 16, plant room, York chiller – non-asbestos containing gasket material.



Photo 10 Interior: level 16, plant room, diesel storage area, stored panel – non-asbestos containing fibre cement sheet.



Photo 11 Interior: level 16, plant room, pump adjacent York chiller – non-asbestos containing gasket material.



Photo 12 Interior: level 16, plant room, pump adjacent York chiller – non-asbestos containing gasket material.



Photo 13 Interior: all levels, throughout, fire doors – suspected asbestos containing fire door core.



Photo 14 Interior: lift motor room, switchboard – suspected asbestos containing fuses.



Photo 15 Interior: lift motor room, lift motor – suspected asbestos containing friction pads.



Photo 16 Exterior: roof, external walls – nonasbestos containing fibre cement sheet.



Photo 17 Interior: level 16, plant room, ceiling – suspected SMF containing sarking insulation.



Photo 18 Interior: level 16, plant room, throughout, air conditioning ductwork – suspected SMF containing internal insulation material.



Photo 19 Interior: level 16, plant room, diesel storage area, diesel pump – suspected SMF containing internal insulation material.



Photo 20 Interior: level 16, plant room, floor throughout, non-lead based blue paint.



Photo 21 Interior: level 16, throughout plant room, machinery – lead based blue paint (0.96%w/w).



Photo 22 Interior: level 16, plant room, Power Pax chiller – non-ODS containing R134a hydrofluorocarbon refrigerant.



Photo 23 Interior: level 16, plant room, York chiller – ODS containing R22 Hydrochlorofluorocarbon (HCFC) refrigerant.

Appendix B – Asbestos and Hazardous Materials Register This page has been left intentionally blank

| Client: Mirva | c Real Estate Pty Ltd | | Site Name: 380 St Kilda | Road | | | | Site Add | dress: 3 | 80 St K | ilda Ro | ad, Me | lbourne | e 3000 | | | | Job No: 754-SYDEN228268 | | | |
|----------------------------------|-------------------------|--|--------------------------|----------------|--|-------------------------|---------|------------------|--------------|---------------------|----------------------|----------------------|------------------------------|-----------------------|-------------------------|------------|--------|--|----------|-------------------|--------------|
| 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 | Quantity | Reinspect Date | Photo No. |
| Interior: Carpark level 8 | Main switch room | Switchboard | Fuses | Asbestos | Visual Observation | Suspected Asbestos | Y | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | A4 | Confirm status, label as containing asbestos and maintain in current condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor. | Unknown | Nov-24 | 1 |
| Interior: Carpark level 8 | Main switch room | Switchboard | Bituminous backing board | Asbestos | Previously sampled 68573/1 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Interior: Carpark level 8 | Main switch room | Walls | Mastic Sealant | Asbestos | Previously sampled 68573/2 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Interior: Carpark level 13 | Archive Enclosure | Walls | Fibre cement sheet | Asbestos | Previously sampled 68573/2 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Interior: All levels | Male and Female toilets | Walls | Fibre cement sheet | Asbestos | Previously sampled 68573/3 685737/4 685737/6 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Interior: Level 16 | Plant room | Partition walls to diesel room | Fibre cement sheet | Asbestos | 69171 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| Interior: Level 16 | Plant room | Pump machinery | Gasket material | Asbestos | 69172 | No Asbestos Detected | - | | - | - | - | - | - | - | - | - | - | - | - | - | 3 |
| Interior: Level 16 | Plant room | Walls - internal | Fibre cement sheet | Asbestos | 69173 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 |
| Interior: Level 16 | Plant room | Pump machinery | Gasket material | Asbestos | 69174 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 |
| Interior: Level 16 | Plant room | Pump machinery | Gasket material | Asbestos | 69175 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 |
| Interior: Level 16 | Plant room | Switchboard | Fuses | Asbestos | Visual Observation | Suspected Asbestos | Y | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | A4 | Confirm status, label as containing asbestos and maintain in current condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor. | Unknown | Nov-24 | 7 |
| Interior: Level 16 | Plant room | Partition walls to diesel storage area | Fibre cement sheet | Asbestos | 69176 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 |
| Interior: Level 16 | Plant room | York chiller | Gasket material | Asbestos | 69177 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 |

| 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 | Quantity | Reinspect Date | Photo No. |
|-------------------------|---------------------------------|-------------------------------|--------------------------------|----------------|--|-------------------------|---------|------------------|--------------|---------------------|----------------------|----------------------|------------------------------|-----------------------|-------------------------|------------|--------|---|--------------------|-------------------|--------------|
| Interior: Level 16 | Plant room | Packer | Fibre cement sheet | Asbestos | Refer 69176 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Interior: Level 16 | Plant room, diesel storage area | Stored panel | Fibre cement sheet | Asbestos | Refer 69176 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 |
| Interior: Level 16 | Plant room | Pump adjacent York chiller | Gasket material | Asbestos | 69178 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 |
| Interior: Level 16 | Plant room | Pump adjacent York chiller | Gasket material | Asbestos | 69179 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| Interior: Level 16 | Plant room | Debris | Fibre cement sheet | Asbestos | Refer 69176 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Interior: Level 16 | Plant room | Pumps | Insulation material - internal | Asbestos | Previously sampled 68573/8 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | | | - | - |
| Interior: All levels | Throughout | Fire door - single | Fire door core | Asbestos | Visual Observation | Suspected Asbestos | Y | 3 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 7 | A3 | Confirm status, label as containing asbestos and maintain in current condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor. | Throughout | Nov-24 | 13 |
| Interior | Lift motor room | Switchboard | Fuses | Asbestos | Visual Observation | Suspected Asbestos | Y | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | A4 | Confirm status, label as containing asbestos and maintain in current condition if to remain in-situ. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor. | Unknown | Nov-24 | 14 |
| Interior | Lift motor room | Lift motor | Friction pads | Asbestos | Visual Observation | Suspected Asbestos | Ν | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | A4 | Confirm status, label as containing asbestos and maintain in current condition if to remain in-situ. Remove under controlled non- friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. | 5 | Nov-24 | 15 |
| Exterior | Roof | Walls - external | Fibre cement sheet | Asbestos | Refer 69176, 68573/11 and 68573/12 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 |
| Exterior | Roof | Emission Stacks | Insulation material - internal | Asbestos | 68573/14 | No Asbestos Detected | - | - | - | - | - | - | - | - | - | - | - | - | | - | - |
| Interior: Level 16 | Plant room | Ceiling | Sarking insulation | SMF | Visual Observation | Suspected SMF | NA | NA | NA | Good | Sealed | Low | NA | NA | NA | Low | - | Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 100 m ² | - | 17 |
| Interior: Level 16 | Plant room, throughout | Air conditioning ductwork | Insulation material - internal | SMF | Visual Observation | Suspected SMF | NA | NA | NA | Good | Sealed | Low | NA | NA | NA | Low | - | Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 100 m ² | - | 18 |
| Interior: Level 16 | Plant room, diesel storage area | Diesel pump | Insulation material - internal | SMF | Visual Observation | Suspected SMF | NA | NA | NA | Good | Sealed | Low | NA | NA | NA | Low | - | Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 1 unit | - | 19 |

| 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 | Quantity | Reinspect Date | Photo No. |
|-------------------------|--------------------------|---------------------------|---------------------------------------|----------------------------------|-----------------------|---------------------------------|------------|------------------|--------------|---------------------|----------------------|----------------------|------------------------------|-----------------------|-------------------------|------------|--------|---|-------------------|-------------------|--------------|
| Interior: All levels | Air handling plant rooms | Air conditioning ductwork | Insulation material - internal | SMF | Visual Observation | Suspected SMF | NA | NA | NA | Good | Sealed | Low | NA | NA | NA | Low | - | Maintain in current condition if to remain in-situ. Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 20 m ² | - | - |
| Interior: Level 16 | Plant room, throughout | Floor | Blue (light) - Top coat | Lead Paint - Chip | L07461 | Lead Detected (0.01% w/w) | - | - | - | - | - | - | - | - | - | - | - | RESULT <0.1% lead content, not lead-containing paint as described in AS 4361.2:2017 Guide to hazardous paint management. | - | - | 20 |
| Interior: Level 16 | Plant room, throughout | Machinery | Blue - Top coat | Lead Paint - Chip | L07462 | Lead Detected (0.96% w/w) | NA | NA | NA | Good | Not Sealed | Low | NA | NA | NA | Low | - | RESULT >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2:2017 Guide to hazardous paint management prior to renovation or demolition works. | 10 m ² | - | 21 |
| Interior: Level 16 | Plant room | Power Pax chiller | R134a Refrigerant | Ozone Depleting Substances | Visual Observation | Non ODS Refrigerant | - | - | - | - | - | - | - | - | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | - | - | 22 |
| Interior: Level 16 | Plant room | York chiller | R22 Hydrochlorofluorocarbon (HCFC) | Ozone Depleting Substances | Visual Observation | ODS Refrigerant | NA | NA | NA | Good | Not Sealed | Low | NA | NA | NA | Low | - | Hydrochlorofluorocarbon (HCFC), ozone depleting substances identified in the assessment that require removal during refurbishment or demolition works should be appropriately decanted and disposed of by a licensed contractor in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012. | 1 unit | - | 23 |
| | | | | | No | o PCB containing | g capacito | rs were iden | tified or s | uspected t | o be pre | sent on si | te at the t | time of | the surve | y | | · | | | |

Appendix C – Laboratory Analysis Certificates

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Bulk Identification Report

| Job No: | 754-SYDEN228268 Mirvac 380 St Kilda Road 05122019 | | | | | | | | |
|---------------------|---|---|--|--|--|--|--|--|--|
| Client: | Mirvac | | $\mathbf{\Lambda}$ | | | | | | |
| Client Address: | Level 28, 200 George Street, | | NATA | | | | | | |
| | Syuney NSW 2000 | | NAIA | | | | | | |
| | | | | | | | | | |
| Contact: | Melanie Jones | | • | | | | | | |
| E-mail: | melanie.jones@mirvac.com | | | | | | | | |
| Date Sampled: | 19/11/2019 | Accredited for | compliance with ISO/IEC 17025 - Testing | | | | | | |
| Date Printed: | 9/12/2019 | | Accreditation No:2220 | | | | | | |
| Sampled By: | Phoebe Quessy & Jake Iskenderian | | Corporate Site No:16909 | | | | | | |
| Site: | 380 St Kilda Road, Melbourne | ad, Melbourne | | | | | | | |
| | Please note: In accepting the results, you (the client) agree that Coffey Service sample submitted in relation to its source and is not liable for any works under samples submitted for analysis have been considered in presenting these resu found at the site, then works should cease and a suitably trained asbestos hyp | es Australia Pty Ltd d taken at site based o ults. Should any othe gienist should be eng | oes not accept any responsibility for the n the analytical data provided. Only the r material suspected to contain asbestos be aged to sample or assess the material. | | | | | | |
| Test Method: | Asbestos in Bulk Samples and Non-homogenous Material Coffey analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Coffey's NATA approved SOP WILAB1 sample retention periods are set at 1 month (no asbestos detected) and 3 months (asbestos detected) | | | | | | | | |
| Total Samples: | 9 | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Matthew Tang | | Patricy Cortes | | | | | | | |
| Approved identilite | | Approved Signato | Ty | | | | | | |
| Sample No. | Location & Description | Sample Size | Results | | | | | | |
| A69171 | Plant room, I partition walls adj pumps - fibre cement sheet - White painted beige layered fibre cement sheet material | ~ 19 x 16 x 5 mm | No asbestos fibres detected Organic fibres detected | | | | | | |
| A69172 | Plant room, pumps - gaskets - Blue painted beige fibrous gasket material | ~ 10 x 9 x 3 mm | No asbestos fibres detected Organic fibres detected | | | | | | |
| A69173 | Plant room, walls to exterior - fibre cement sheet - Beige layered fibre cement sheet material | ~ 19 x 16 x 4 mm | No asbestos fibres detected Organic fibres detected | | | | | | |

Plant room, pumps, black gaskets - Green painted black fibrous gasket material

Plant room, pumps, gaskets - Blue painted beige fibrous gasket material

Plant room, partition walls to diesel room - fibre cement sheet - Beige layered fibre

cement sheet material

Plant room, gasket to york chiller - Green painted beige fibrous gasket material

Plant room, gasket to pump next to york chiller - Green painted red fibrous gasket

material

Plant room, black gasket to pump next to york chiller - Green painted black fibrous

gasket material

A69174

A69175

A69176

A69177

A69178

A69179

No asbestos fibres detected

Organic fibres detected

~ 13 x 9 x 3 mm

~ 15 x 13 x 3 mm

~ 48 x 30 x 5 mm

~ 10 x 6 x 3 mm

~ 9 x 7 x 3 mm

~ 12 x 9 x 3 mm



CERTIFICATE OF ANALYSIS 232438

| Client Details | |
|----------------|---|
| Client | Coffey Environment |
| Attention | Phoebe Quessy |
| Address | Level 19, Tower B, Citadel Tower, 799 Pacific Hwy, Chatswood, NSW, 2067 |

| Sample Details | |
|--------------------------------------|-----------------------------|
| Your Reference | SYDEN228268 380 St Kilda Rd |
| Number of Samples | 2 paint |
| Date samples received | 05/12/2019 |
| Date completed instructions received | 05/12/2019 |

Analysis Details

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

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

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

| Report Details | |
|---|--|
| Date results requested by | 10/12/2019 |
| Date of Issue | 10/12/2019 |
| NATA Accreditation Number 2901. This do | ocument shall not be reproduced except in full. |
| Accredited for compliance with ISO/IEC 17 | 7025 - Testing. Tests not covered by NATA are denoted with * |

<u>Results Approved By</u> Jaimie Loa-Kum-Cheung, Metals Supervisor Authorised By

Nancy Zhang, Laboratory Manager



| Lead in Paint | | | |
|----------------|-------|------------|------------|
| Our Reference | | 232438-1 | 232438-2 |
| Your Reference | UNITS | L07461 | L07462 |
| Date Sampled | | 19/11/2019 | 19/11/2019 |
| Type of sample | | paint | paint |
| Date prepared | - | 09/12/2019 | 09/12/2019 |
| Date analysed | - | 10/12/2019 | 10/12/2019 |
| Lead in paint | %w/w | 0.01 | 0.96 |

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

| QUALIT | plicate | Spike Recovery % | | | | | | | | |
|------------------|---------|------------------|------------|------------|------|------|------|------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date prepared | - | | | 09/12/2019 | [NT] | | [NT] | [NT] | 09/12/2019 | |
| Date analysed | - | | | 10/12/2019 | [NT] | | [NT] | [NT] | 10/12/2019 | |
| Lead in paint | %w/w | 0.005 | Metals-004 | <0.005 | [NT] | [NT] | [NT] | [NT] | 103 | [NT] |

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

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

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

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

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

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

Appendix D – Asbestos Legislative Requirements

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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 <u>contact your regulator</u>.

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

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| STATE Primary Asbestos Legislation | Asbestos Survey Requirements | Asbestos Resurvey Requirements | Reporting Requirements | Labelling/Signage Requirements | Other Requirements |
|---|---|---|---|--|---|
| VICTORIA Occupational Health & Safety Act 2004 Occupational Health and Safety Regulations 2017 Supported by: Compliance Code: Managing Asbestos in Workplaces 2019 Compliance Code: Removing Asbestos in Workplaces 2019 Note: Victoria has deferred implementing harmonisation. | Occupier's responsibility to determine whether asbestos is present and if so to identify the type, location, friability and condition of ACM. 'a person who manages or controls a workplace must, so far as is reasonably practicable, identify all asbestos containing materials (ACM) at the workplace and have them recorded in an asbestos register.' Occupational Health and Safety Regulations 2017 [Chapter 4, Part 4.4, Division 5, Subdivision 2] Also to conduct risk assessment on the basis of the above plus likely disturbances. Results of Atmospheric monitoring are to be available for potentially affected employees. | Undertake review and revision of risk assessment when condition of asbestos changes, remedial work has been carried out or the assessment is no longer valid. Maximum review timeframe is 5 years. | The site specific Asbestos Register needs to include the date, type, location, condition and work likely to disturb ACM identified during the survey. The Asbestos Register must be maintained and also updated if: further ACM is identified and/or, ACM is removed, disturbed or encapsulated. At least once every 5 years. A copy of the Asbestos Register is made available to: persons working at the workplace; and licensed asbestos removalist; and persons performing other tasks as prescribed at s. 4.4.305 Notification to Authority 24hrs prior for removal work for ACM < 10 m ² and non-friable and then by a competent person and 5 days prior for other cases. Notification to Authority with 24hrs of unexpected situations. | Training and record of same is required for persons involved in asbestos removal work. If practicable, presence of ACM in a workplace has to be labelled. Before refurbishment or demolition: ensure Asbestos Register is obtained, reviewed and is current undertake necessary inspections A licenced asbestos removalist is required unless: ACM < 10 m² and non-friable and then by a competent person and removal work is < 1 hr in any 7-day period. | The person who commissioned the asbestos removal work must obtain a clearance certificate from an independent person before the area where the asbestos removal work was being performed is re-occupied. |