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## **HAZARDOUS MATERIALS ASSESSMENT REPORT**

**Client:** Cape Cod Australia Pty. Limited

**Job details:** Owner/s: Mr. P. & Mrs. E. Keogh  
Location: 68 King Street, Eastlakes NSW

Plans for Job No: 7563/14      Revision No: C      Dated: 31-10-14

**Council area:** BOTANY BAY

**Date of assessment:** 20<sup>th</sup> November 2014

**Our reference:** HM03531114

**The Client acknowledges that:**

This report is provided for **the exclusive information of the Client**. It is a term and condition of the terms upon which this report is provided, that if the Client chooses to rely upon the report, that the Company and the Person making this report will not be liable to the Client or to any other Person who suffers personal or property damage or financial loss in respect of any cause of action or tort, contract or however the cause of action is said to arise.

This report is **not a guarantee or warranty** or an all-encompassing report dealing with the above property from every aspect. It is based on the condition of the property and the **"Readily Accessible Areas"** at the time of assessment. It is a reasonable attempt to identify as far as *reasonably practicable*, any significant hazardous materials i.e. materials *"that may"* contain asbestos [ACM] or [ACD], ceiling dusts *"that may"* contain lead, paints *"that may"* contain lead or synthetic mineral fibres [SMF], **visible** at the time of assessment.

This report, based on visual assessment, will not disclose hazardous materials in inaccessible areas, not readily accessible or obstructed at the time of assessment. Areas which are not normally accessible were not assessed and include but are not limited to – inside walls, the interior of a flat roof or beneath a suspended floor filled with earth.

This report is **not a Certificate of Compliance** with the requirements of the WHS Act 2011 and WHS Regulations 2011, relevant Codes of Practice or Australian Standards or NSW Office of Environment and Heritage [OEH] Regulations.



**Front northern elevation of the residence**

## 1. GENERAL DESCRIPTION OF THE EXISTING RESIDENCE

<b>Estimated age:</b>	Original residence is approximately circa 1920. Rear additions and internal renovations are approximately circa 1980 -1990.
<b>Type of construction:</b>	Freestanding single storey timber framed and clad residence on brick footings and with a suspended timber floor system.
<b>External cladding:</b>	Possible fibre cement [FC] weatherboards
<b>Roof:</b>	Front gable pitched roof with corrugated sheet metal roofing. Rear skillion roof with pan profile sheet metal roofing.

**Occupancy Status:** Was the residence occupied at the time of assessment?

Yes	✓	No		Not Applicable	
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**Orientation:** For the purpose of this report the front of the residence faces:

East		West		North	✓	South		Northeast		Northwest		Southeast		Southwest	
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## 2. AREAS ASSESSED

This assessment covers the following “*Readily Accessible Areas*” of the existing residence layout to identify as far as *reasonably practicable* any significant hazardous materials i.e. materials “*that may*” contain asbestos [ACM] or [ACD], ceiling dusts “*that may*” contain lead, paints “*that may*” contain lead or synthetic mineral fibre insulation [SMF].

Under Floor Space	×	Exterior	✓	Roof Surfaces	✓	Roof Cavity	✓	Interior	✓	Carport	N/A
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### 3. ASSESSMENT OF THE EXISTING RESIDENCE LAYOUT FOR HAZARDOUS MATERIALS

Area Assessed	Description and Comment	Assessment / Action
<b>Under Floor Space</b>	No access is available. Minimal clearance is noted. <b>Note:</b> plumbing and drainage work is proposed in this area to relocate Laundry as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
<b>Exterior</b>		
Cladding	Possible fibre-cement [FC] weatherboards <b>Note:</b> existing windows in rear elevation wall to be removed and openings altered for new stacker doors as part of the proposed Contract works.	Remove and dispose of the probable FC weatherboards in a manner approved by WorkCover NSW, NSW OEH and Botany Bay Council. Appropriate dust suppression measures to be provided. No further action is required.
Eave soffit lining	Nil eaves to front gable ended roof or to skillion roof.	Remove and dispose of the probable FC eave soffits in a manner approved by WorkCover NSW, NSW OEH and Botany Bay Council. Appropriate dust suppression measures to be provided. No further action is required.
	Possible fibre-cement [FC] sheet to rear addition eave. <b>Note:</b> eave to be demolished to accommodate first floor frame as part of the proposed Contract works.	
Roofing	Corrugated sheet metal roofing to front gable ended roof. <b>Note:</b> roof structure to be demolished to accommodate first floor frame as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
	Pan profile sheet metal roofing to rear skillion roof. <b>Note:</b> roof structure to be demolished to accommodate first floor frame as part of the proposed Contract works.	
Front verandah	Possible fibre-cement [FC] sheet with Pvc jointing strips to the soffit. Possible fibre-cement [FC] to the eastern wall cladding. <b>Note:</b> existing window Bedroom 1 wall to be removed and opening blocked up as part of the proposed Contract works	Remove and dispose of the probable FC weatherboards in a manner approved by WorkCover NSW, NSW OEH and Botany Bay Council. All necessary steps are to be taken to protect the retained soffit lining and eastern end wall cladding from damage during the course of the works. Appropriate dust suppression measures to be provided. No further action is required.

Area Assessed	Description and Comment	Assessment / Action
Rear deck	Attached timber framed structure with skillion roof, hardwood decking and translucent acrylic roofing sheets. <b>Note:</b> not part of the proposed Contract works.	All necessary steps are to be taken to protect the roofing and eastern end wall cladding from damage during the course of the works. No further action is required.
Painting - general	Combination of oil based and acrylic based surface coating to the weatherboard wall cladding, timber windows, eaves, fascia, barges and trims. No exposed lead based paints were observed.	Appropriate dust suppression measures to be provided. No further action is required.
<b>Interior</b>		
Entry <b>Note:</b> roof attic ladder	Plasterboard to the wall linings. Plasterboard ceiling lining with cove profile plaster cornices. <b>Note:</b> roof attic ladder to be removed; <i>common</i> internal framed wall Bedroom 1 to be demolished; and surfaces to be made good as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Bedroom 1 <b>Note 1:</b> Shown as Laundry/ Stairs on Construction Drawing 3 of 8 for Job No. 7563/14 <b>Note 2:</b> roof space access	Plasterboard to the wall linings. Plasterboard ceiling lining with cove profile plaster cornices. <b>Note:</b> existing window in front wall to be removed and opening blocked up; <i>common</i> internal framed wall Bedroom 1 to be demolished; ceiling frame adjusted to accommodate internal staircase; and surfaces to be made good as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Bedroom 2 <b>Note:</b> Shown as Bedroom 4 on Construction Drawing 3 of 8 for Job No. 7563/14	Plasterboard to the wall linings. Plasterboard ceiling lining with cove profile plaster cornices. <b>Note:</b> not part of the proposed Contract works.	No action is required.
Bathroom	Possible fibre-cement [FC] sheet to the wall linings under wall tiles from floor to ceiling level. Plasterboard ceiling lining with cove profile plaster cornices. <b>Note:</b> not part of the proposed Contract works.	No action is required.

Area Assessed	Description and Comment	Assessment / Action
Kitchen / Dining <b>Note:</b> skylight	Plasterboard to the wall linings. Plasterboard ceiling lining with cove profile plaster cornices. <b>Note:</b> <i>common</i> internal framed walls with Laundry/ Bedroom 3 to be demolished; existing skylight to be removed; new skylight to be installed; and surfaces to be made good as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Internal Laundry	Possible fibre-cement [FC] sheet to the wall linings. Particleboard ceiling [shelf to cupboard area over]. <b>Note:</b> to be completely stripped; <i>common</i> internal framed walls with Kitchen and Bedroom 3 to be demolished; surfaces to be made good as part of the proposed Contract works.	Remove and dispose of the probable FC wall lining in a manner approved by WorkCover NSW, NSW OEH and Botany Bay Council. Appropriate dust suppression measures to be provided. No further action is required.
Living room	Plasterboard to the wall linings. Plasterboard ceiling lining with cove profile plaster cornices. <b>Note:</b> <i>common</i> internal framed walls with Bedroom 3 to be demolished; existing window in rear wall to be removed and opening altered for new stacker door; and surfaces to be made good as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Bedroom 3	Plasterboard to the wall linings. Plasterboard ceiling lining with cove profile plaster cornices. <b>Note:</b> <i>common</i> internal framed walls with Laundry and Living room to be demolished; existing window in rear wall to be removed and opening altered for new stacker door; and surfaces to be made good as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Painting - general	Combination of oil based and acrylic based surface coating to ceilings, walls, doors, windows and trims. No exposed lead based paints were observed.	Appropriate dust suppression measures to be provided. No further action is required.

Area Assessed	Description and Comment	Assessment / Action
<b>Pitched Roof Cavity</b>	Traditional cut and pitched timber roof structure and ceiling frame. <b>Note 1:</b> roof structure to be completely demolished to accommodate first floor addition as part of the proposed Contract works. Foil backed insulation /sarking to the underside of the sheet metal roofing noted.	In our opinion the air quality will not be generally affected during the course of the construction of the first floor addition. Remove and dispose of the foil backed sarking in a manner approved by NSW OEH and Botany Council. Appropriate dust suppression measures to be provided. No further action is required.
	Synthetic mineral fibre [SMF] batt insulation overall the roof space. <b>Note 2:</b> insulation to be removed as part of the proposed Contract works. Minimal ceiling dust was noted.	Remove and dispose of the synthetic mineral fibre [SMF] insulation in a manner approved by WorkCover NSW, NSW OEH and Botany Bay Council. See attached Safe Work Method Statement for the safe removal of synthetic mineral fibre [SMF] insulation.
<b>Skillion Roof Cavity</b>	Inspection of the roof cavity over the rear addition was not carried out due to the method of construction. <b>Note 1:</b> roof structure to be completely demolished to accommodate proposed first floor frame as part of the proposed Contract works. <b>Note 2:</b> possible foil backed insulation / sarking to the underside of the sheet metal roofing.	Remove and dispose of the foil backed sarking in a manner approved by NSW OEH and Botany Bay Council. Appropriate dust suppression measures to be provided. No further action is required.
<b>Electrical Meter Board</b>	Located on the external wall of the front verandah. <b>Note:</b> to be retained in current position as part of the proposed Contract works.	No action is required.
<b>Approximate area of materials “that may” contain asbestos [ACM] to be removed as part of the proposed Contract works.</b>		<b>0.0m<sup>2</sup></b>

### **DEMOLITION WORK PLAN**

The partial demolition of the residence and the removal, storage, handling and disposal of building materials must be carried out as far as *reasonably practicable* in accordance with the following Regulations;

- Work Health and Safety Act 2011 and Work Health and Safety Regulations 2011
- WorkCover NSW - Code of Practice - *How to manage and control asbestos in the workplace*
- Safe Work Australia - Code of Practice - *How to safely remove asbestos*

- NSW Work Health and Safety (Hazardous Substances) Regulation 2001
- NSW Work Health and Safety (Asbestos Removal Work) Regulation 2001
- Australian Standard AS2601 [2001] - Demolition of Structures
- NSW Protection of the Environment Operations Act [1997]
- NSW Protection of the Environment Operations [Waste] Regulation [2005]
- NSW Office of Environment and Heritage [OEH] Regulations and Guidelines

A Demolition Work Plan must be submitted to BOTANY BAY Council and the Principal Certifying Authority (PCA) if BOTANY BAY Council is not the PCA, not less than five [5] working days ***before commencing any demolition works*** involving products or materials “*that may*” contain asbestos [ACM].

A copy of the Demolition Work Plan must be maintained on site and be made readily accessible to the Council Officer or ‘workers’ upon request.

### **ASBESTOS [ACM] REMOVAL CONTROL PLAN**

#### **Safe Work Method Statement - Removal & Disposal of Materials *that may* contain Asbestos**

Any work involving the demolition, storage and disposal of products or materials “*that may*” contain asbestos [ACM] must be carried out as far as is *reasonably practicable* to minimise the release of airborne asbestos dust and fibres [ACD] in accordance with the following requirements;

- Relevant Work Health and Safety legislation including but not limited to WorkCover NSW - Code of Practice - *How to manage and control asbestos in the workplace*; Safe Work Australia - Code of Practice - *How to safely remove asbestos* and NSW Office of Environment and Heritage [OEH] requirements.
- The person with Management Control of the workplace and the licensed Asbestos Removalist must, so far as is *reasonably practicable*, and before commencing the asbestos [ACM] removal work, consult with and inform the following people about the asbestos [ACM] removal work and when the work will commence, so as to eliminate or minimise the exposure of the risks associated with asbestos:
  - The person who commissioned the asbestos removal work [Site Management]
  - A person conducting a business or undertaking at the workplace [Contractors]
  - The occupants of the domestic premises [Owner or Tenant]
  - Anyone occupying premises in the immediate vicinity of the workplace [Neighbours]
- All work procedures are to be devised as far as is *reasonably practicable*, to minimise the release of dust and fibres [ACD].
- Appropriate warning signage and barricades are to be erected to prevent as far as is *reasonably practicable*, entry of anyone not connected with the removal activity into the work area.
- The sign must be clearly displayed in a prominent visible position at the front of the site; containing the words “**DANGER ASBESTOS REMOVAL IN PROGRESS**” and including the details of the licensed Asbestos Removal Contractor [PCBU].
- When working with products and materials “*that may*” contain asbestos [ACM] all ‘workers’ are to wear personal protective equipment [PPE] including coveralls and approved respiratory

protective equipment [RPE] in accordance with the requirements of AS/NZS1716 – *Respiratory Protection devices* and AS/NZS1715- *Selection, use and maintenance of respiratory protective devices*.

- As far as is *reasonably practicable*, use non powered hand tools for the removal of the materials *that may* contain asbestos [ACM] as these generate much less dust [ACD]. **Do not use** abrasive cutters and sanders, scrub or water blast the surface of products and materials *“that may”* contain asbestos [ACM].
- All products and materials *“that may”* contain asbestos [ACM] are to be kept damp to minimise as far as is *reasonably practicable* the generation of airborne asbestos dust and fibres [ACD]. Prevent and or contain excess run off water.
- Where it is *reasonably practicable* work in well ventilated areas.
- Use drop sheets to collect debris of materials *that may* contain asbestos [ACM]. Dispose of smaller products and materials *“that may”* contain asbestos [ACM] pieces and collected dust [ACD] in recommended heavy duty plastic bags which are clearly labelled **“asbestos waste”**.
- Wet clean or use approved vacuum cleaning equipment [HEPA] which complies with AS/NZS 603335.2.69 – *Industrial vacuum cleaners*. Household vacuum cleaners **must never be used** where asbestos [ACM] or [ACD] is or may be present, even if the unit has a HEPA filter.
- Wall cladding and ceiling lining sheets *“that may”* contain asbestos [ACM] are **not** to be reused.
- All products and materials *“that may”* contain asbestos [ACM] or [ACD] are to be stored, transported and disposed of in accordance with the NSW Protection of the Environment Operations Act [1997] and NSW Protection of the Environment Operations [Waste] Regulation [2005]
- All products and materials *“that may”* contain asbestos [ACM] or [ACD] is to be either wrapped in recommended heavy duty plastic sheeting or placed in leak proof lined bins or vehicles and appropriately covered and sealed.
- All products and materials *“that may”* contain asbestos [ACM] or [ACD] are to be stored in a secure area and removed from site as soon as is *reasonably practicable* in a covered leak proof vehicle.
- A Clearance Certificate of Statement, prepared by a suitably *competent person* i.e. an Occupational Hygienist, WorkCover NSW licensed Asbestos Removalist, licensed Asbestos Assessor or a *“competent person”* must be provided to Council upon completion of the works prior to an Occupation Certificate being issued, which confirms that the material *“that may”* contain asbestos [ACM] or [ACD] has been removed appropriately and the relevant Conditions of Consent have been satisfied.
- All products and materials *“that may”* contain asbestos [ACM] or [ACD] are to be disposed of as soon as is *reasonably practicable*, at a licensed asbestos disposal site and in a manner approved by WorkCover NSW, NSW Office of Environment and Heritage [OEH] or BOTANY BAY Council.

#### **Safe Work Method Statement – Removal and Disposal of Synthetic Mineral Fibre Insulation**

All Contractors [PCBU's] and *‘workers’* involved in the removal of suspected synthetic mineral fibre [SMF] insulation are to follow the following procedures in order to minimise as far as is *reasonably practicable* health risks from synthetic mineral fibre [SMF] insulation. These procedures include but are not limited to:



- Appropriate warning signage and barricades are to be erected to prevent as far as is *reasonably practicable*, entry of anyone not connected with the removal activity into the work area.
- When removing synthetic mineral fibre [SMF] insulation all ‘workers’ are to wear personal protective equipment [PPE] including coveralls and an approved respiratory protective equipment [RPE] in accordance with the requirements of AS/NZS1716 - *Respiratory Protection devices* and AS/NZS1715 - *Selection, use and maintenance of respiratory protective devices*. Eye protection, complying with AS/NZS1336 and AS/NZS1337 whenever full face respirators are not used.
- The property Owner [Client] is to be advised to clear or cover personal effects in adjoining living spaces as far as is *reasonably practicable*.
- Any openings between living areas are to be sealed prior to the commencement of any removal work of synthetic mineral fibre [SMF] insulation to prevent as far as is *reasonably practicable*, dust and fibres entering the retained living areas.
- Use approved vacuum cleaning equipment that complies with AS/NZS 603335.2.69 - *Industrial vacuum cleaners*, to prevent as far as is *reasonably practicable*, the release of dust “that may” contain synthetic mineral fibres [SMF] while it is being removed. **Do not use** household vacuum cleaners even if the unit has a HEPA filter.
- Dispose of the synthetic mineral fibre [SMF] insulation in sealed approved plastic bags which are clearly labelled.
- All synthetic mineral fibre [SMF] insulation or other contaminants is to be disposed of as far as is *reasonably practicable*, in a manner, and at a site, approved by WorkCover NSW, NSW Office of Environment and Heritage [OEHL], appropriate licensed disposal Authority or BOTANY BAY Council.

#### **Safe Work Method Statement – Lead based paints**

All Contractors [PCBU's] and ‘workers’ involved in the cleaning, repairing or replacement of suspected lead based paint are to follow the following procedures in order to minimise as far as is *reasonably practicable*, health risks from lead based paints. These procedures include but are not limited to:

- Appropriate warning signage and barricades are to be erected to prevent as far as is *reasonably practicable*, entry of anyone not connected with the removal activity into the work area.
- When working with lead based paints all ‘workers’ are to wear personal protective equipment [PPE] including coveralls and an approved respiratory protective equipment [RPE] in accordance with the requirements of AS/NZS1716 - *Respiratory Protection devices* and AS/NZS1715 - *Selection, use and maintenance of respiratory protective devices*. Eye protection, complying with AS/NZS1336 and AS/NZS1337 whenever full face respirators are not used.
- The property Owner [Client] is to be advised to clear or cover personal effects in adjoining living spaces as much as is practical.
- Any openings between living areas are to be sealed prior to the commencement of any removal work of lead based paints to prevent as far as is *reasonably practicable*, dust entering the retained living areas.
- Use approved vacuum cleaning equipment [HEPA] which complies with AS/NZS 603335.2.69 - *Industrial vacuum cleaners*, to prevent as far as is *reasonably practicable*, the release of dust

that may contain lead while it is being removed. **Do not use** household vacuum cleaners even if the unit has a HEPA filter.

- Dispose of collected lead based paint dust in sealed approved plastic bags which are clearly labelled.
- All dust containing lead or other contaminants is to be disposed of as far as *reasonably practicable* in a manner, and at a site, approved by WorkCover NSW, NSW Office of Environment and Heritage [OEH], appropriate disposal Authority or BOTANY BAY Council.

#### 4. **AREAS NOT ASSESSED**

- Assessment was not undertaken of the underfloor area due to no access being available.
- Assessment of the skillion roof space was not undertaken due to the method of construction.

#### 5. **UNDETECTED HAZARDOUS MATERIALS**

Due to the level of accessibility including the presence of obstructions the overall degree of risk of **undetected** hazardous materials is considered as far as *reasonably practicable* to be:

Low		Moderate	✓	Moderate to High		High	
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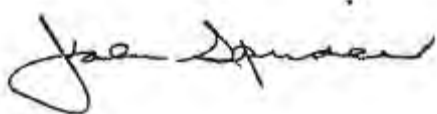
#### **CERTIFICATION**

This document certifies that the existing residence layout described in this report has been assessed as far as *reasonably practicable* for the inclusion of hazardous materials i.e. materials “*that may*” contain asbestos [ACM] or [ACD], paints “*that may*” contain lead, ceiling dusts “*that may*” contain lead or synthetic mineral fibres [SMF] in the existing structure.

**This assessment and report was carried out by:** John Spindler

**Builders Licence No.** 84050C

**Signed for and on behalf of** JONSPIN Building Services Pty. Limited



**John Spindler**

**Date of Issue:** 20<sup>th</sup> November 2014