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HAZARDOUS MATERIALS ASSESSMENT REPORT

Client: Cape Cod Australia Pty. Limited

Job details: Owner: Mr. J. & Mrs. J. Warburton

Location: 40 Rangers Avenue, Mosman.

Plans for Job No: 7766/16 Revision No: E Dated: 29-09-2016

Council area: MOSMAN

Date of assessment: 11th November 2016

Our reference: HM05331116

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

Estimated age:	Circa 1910 – 1920 for the original residence with the rear extension constructed in 1980's. The kitchen was renovated circa 2014.
Type of construction:	Single storey full brick / brick cavity construction built on sandstone block and brick footings supporting a suspended timber floor system. The rear extension is of timber stud wall construction built on sandstone block and brick footings with a concrete slab flooring system.
External cladding:	Clay masonry brickwork to original residence. Probable asbestos cement [ACM] sheet to the rear extension (Kitchen and Storage Area).
Roof:	Hip and valley roof structure with terracotta roofing tiles to the original roof. Flat roof structure with pan profiled sheet metal roofing to the rear extension.

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

Yes	✓	No	Not Applicable	
163		140	Not Applicable	

Orientation: For the purpose of this report the front of the residence faces:

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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 🗸		
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3. ASSESSMENT OF THE EXISTING RESIDENCE LAYOUT FOR HAZARDOUS MATERIALS

Area Assessed	Description and Comment	Assessment / Action		
Under Floor Space	Area of groundwater seepage [dampness] noted. Note 1: Small roll of malthoid sarking [ACM] stored in the floor space. Note 2: Polystyrene insulation to the	Remove & dispose of malthoid sarking [ACM] in the floor space in a manner approved by Safe Work NSW, NSW OEH & Mosman Council.		
	underside of the strip timber flooring.	No further action is required.		
Exterior				
Cladding	Original section	Appropriate dust suppression		
	Clay masonry brickwork to the original front section of the residence.	measures to be provided. No further action is required.		
	Note 1: existing window to the Laundry (shown as Kitchen on Construction Drawing 3 of 9 for Job No. 7766/16) to be removed and the opening bricked up as part of the proposed Contract works. Note 2: existing window to the Dining to be			
	removed and the opening altered as part of the proposed Contract works.			
	Rear Extension	~ 10.0 m²		
	Surface coated Probable asbestos cement [ACM] sheet to the timber framed Storage and Kitchen area. Note 1: existing Probable asbestos cement [ACM] sheet to be removed and replaced by	Remove and dispose of the ACM sheeting as required in a manner approved by Safe Work NSW, NSW OEH and Mosman Council. See attached Safe Work Method		
	'weathertex' cladding as part of the proposed Contract works.	Statement for the removal of material <i>that may</i> contain asbestos [ACM].		
		All necessary steps are to be taken to protect the retained eaves from damage during the course of the works.		
		Appropriate dust suppression measures to be provided.		
		No further action is required.		
Eave soffit lining	Timber lining boars to the eave soffits Note: existing eaves to the side western and	Appropriate dust suppression measures to be provided.		
	eastern elevations to be demolished as part of the proposed Contract works.	No further action is required.		
Gable end lining	Probable asbestos cement [ACM] to front gable end lining. Note: not associated with the proposed Contract works, existing eaves to be retained.	All necessary steps are to be taken to protect the retained eaves from damage during the course of the works. Appropriate dust suppression		
		measures to be provided. No further action is required.		
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Area Assessed	Description and Comment	Assessment / Action
Roofing material	Front pitched section Terracotta roofing tiles. Note: Approximately 80% of the original roof structure to be removed to accommodate first floor addition as part of the proposed Contract works.	Remove and dispose of the terracotta roofing tiles in a manner approved by NSW OEH and Mosman Council. Appropriate dust suppression measures to be provided. No further action is required.
	Rear extension Pan profile sheet metal roofing. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Front Porch	Suspended strip timber floor suspended on brick piers with brick balustrade wall. Fibrous plaster ceiling lining and cove profile plaster cornice with pre-finished pan profile sheet metal roofing Note 1: Probable asbestos cement {ACM] to the top riser of the front porch access steps. Note 2: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Rear Landing	Timber stairs and rail with suspended timber landing. Awning over landing is corrugated profile sheet acrylic roofing. Note: to be demolished to accommodate the new timber deck structure as part of the proposed Contract works.	Remove and dispose of treated timbers in a manner approved by Safe Work NSW, NSW OEH & Mosman Council Appropriate dust suppression measures to be provided. No further action is required.
Painting - general	Combination of oil based and acrylic based surface coating to the timber windows, gable ends, eaves and trims. No exposed lead based paints were observed.	Appropriate dust suppression measures to be provided. No further action is required.
Interior Ground Flo	or	
Entry	Painted cement render to the walls. Ornate fibrous plaster ceiling with decorative profiled plaster cornice. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Bedroom 1 Note 1: shown as TV Room on Construction Drawing 3 of 9 for Job No. 7766/16 Note 2: Bay window	Painted cement render to the walls. Ornate fibrous plaster ceiling with decorative profiled plaster cornice. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.

Area Assessed	Description and Comment	Assessment / Action
Hall Note: Roof space access	Painted cement render to the walls. Fibrous plaster ceiling with decorative profiled plaster cornice. Note: existing cornices to be replaced as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Bedroom 2 Note 1: Skytube Note 2: shown as Guest Room on Construction Drawing 3 of 9 for Job No. 7766/16.	Painted cement render to the walls. Decorative fibrous plaster ceiling with decorative profiled plaster cornice. Note: existing solar sky tube to be removed as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Study Note 1: shown as Laundry on Construction Drawing 3 of 9 for Job No. 7766/16.	Painted cement render to the walls. Decorative fibrous plaster ceiling with decorative profiled plaster cornice. Note 1: existing wall common with Hallway to be partially demolished to accommodate the staircase as part of the proposed Contract works. Note 2: existing strip timber flooring to be removed and replaced as part of the proposed Contract works. Note 3: existing ceiling linings and cornices to be removed and replaced as part of the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.
Lobby	Painted brickwork to the walls. Possible asbestos cement [ACM] sheet to ceiling lining with decorative profiled plaster cornice. Note 1: existing ceiling linings and cornices to be removed and replaced as part of the proposed Contract works. Note 2: existing wall to rear entry to be demolished as part of the proposed Contract works.	Remove and dispose of the ACM sheeting as required in a manner approved by Safe Work NSW, NSW OEH and Mosman Council. See attached Safe Work Method Statement for the removal of material that may contain asbestos [ACM]. Appropriate dust suppression measures to be provided. No further action is required.

Area Assessed	Description and Comment	Assessment / Action
Laundry	Painted cement rendered brickwork to the	~ 2.25 m ²
Note 1: shown as Kitchen on Construction Drawing 3 of 9 for	walls. Possible asbestos cement [ACM] sheet to ceiling lining with small cove profiled plaster cornice.	Remove and dispose of the ACM sheeting as required in a manner approved by Safe Work NSW, NSW OEH and Mosman Council.
Job No. 7766/16 Note 2: raked ceiling	Note 1: existing ceiling linings and cornices to be removed and replaced as part of the proposed Contract works.	See attached Safe Work Method Statement for the removal of material that may contain asbestos
	Note 2: existing wall common with Kitchen and Lobby to be demolished as part of the proposed Contract works.	[ACM]. Appropriate dust suppression measures to be provided.
	Note 3: existing concrete slab floor to be demolished and T&G flooring provided as part of the proposed Contract works.	No further action is required.
Kitchen	Probable fibre cement [FC] sheet to wall lining, tiled to splashback level.	Appropriate dust suppression measures to be provided.
	Fibrous plaster ceiling lining with small cove profiled plaster cornice.	No further action is required.
	Note 1: existing wall common with existing Laundry and Lobby to be demolished as part of the proposed Contract works.	
	Note 2 : existing timber strip flooring to be sanded and re-finished as part of the proposed Contract works.	
	Note 3: existing services to be terminated and new services provided as part of the proposed Contract works.	
Playroom Note: shown as	Combination plasterboard a painted cement render to the walls.	Appropriate dust suppression measures to be provided.
Dining Room on Construction Drawing 3 of 9 for Job No. 7766/16.	Plaster ceiling with cove profiled plaster cornice.	No further action is required.
	Note 1: existing door opening to be demolished and bricked up as part of the proposed Contract works.	
	Note 2: existing opening to Lobby to be altered as part of the proposed Contract works.	
Bathroom	Painted cement render to the walls, tiled to 2.1 m.	Appropriate dust suppression measures to be provided.
	Plasterboard ceiling with cove profiled plaster cornice.	No further action is required.
	Note: not associated with the proposed Contract works.	
Lounge Room	Painted cement render to the walls.	Appropriate dust suppression measures to be provided.
Note: fireplace	Fibrous plaster ceiling with exposed beams and small cove profiled plaster cornice.	No further action is required.
	Note: not associated with the proposed Contract works.	

Area Assessed	Description and Comment	Assessment / Action
Dining Note: shown as Lounge Room on Construction Drawing 3 of 9 for Job No. 7766/16.	Painted cement render to the walls. Fibrous plaster ceiling with exposed beams and small cove profiled plaster cornice. Note: not associated with 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 the timber windows, gable ends, eaves and trims. No exposed lead based paints were observed.	Appropriate dust suppression measures to be provided. No further action is required.
Interior Sub Floor		
Storage	Probable asbestos cement [ACM] sheet to wall and ceiling lining. Note: not associated with the proposed Contract works.	All necessary steps are to be taken to protect the retained eaves from damage during the course of the 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 the timber windows, gable ends, eaves and trims. No exposed lead based paints were observed.	Appropriate dust suppression measures to be provided. No further action is required.
Pitched Roof Cavity	Traditional cut and pitched timber roof structure and ceiling frame to roof cavity. Note 1: 80% of the roof structure to be removed to accommodate first floor addition as part of the proposed Contract works. Note 2: no sarking is provided to the underside of the terracotta roof tiles. Note 3: Synthetic Mineral Fibre [SMF] batt insulation to overall roof space Note 4: Moderate ceiling dust was noted.	In our opinion the air quality will not be generally affected during the course of the construction of the new first floor addition. Remove and dispose of the Synthetic Mineral Fibre [SMF] batt insulation in a manner approved by NSW OEH and Mosman Council. Appropriate dust suppression measures to be provided. No further action is required.
Skillion Roof Cavity	Inspection of the skillion roof cavity was not carried out due to the method of construction. Possible foil backed insulation [SMF] to underside of sheet metal roofing. Note: not associated with the proposed Contract works.	Appropriate dust suppression measures to be provided. No further action is required.

Area Assessed	Description and Comment	Assessment / Action
Electrical Meter Board	Located on the western front external wall of the residence.	Appropriate dust suppression measures to be provided.
	Probable Bakelite backboard was noted.	No further action is required.
	Note: meter board and POA to be retained in current position as part of the proposed Contract works.	
Approximate area of materials "that may" contain asbestos [ACM] to be removed as part of the proposed Contract works.		~ 15.25 m ²

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
- Safe Work 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 Regulation 2011 Chapter 4 Hazardous Work
- NSW Work Health and Safety Regulation 2011 Chapter 6 Construction Work
- NSW Work Health and Safety Regulation 2011 Chapter 7 Hazardous Chemicals
- NSW Work Health and Safety Regulation 2011 Chapter 8 Asbestos
- Australian Standard AS2601 [2001] Demolition of Structures
- NSW Protection of the Environment Operations Act [1997] or as amended
- NSW Protection of the Environment Operations [Waste] Regulation [2014]
- NSW Office of Environment and Heritage [OEH] Regulations and Guidelines

A Demolition Work Plan must be submitted to MOSMAN Council and the Principal Certifying Authority (PCA) if MOSMAN 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; Work Health and Safety Regulation 2011 - Chapter 8 - Asbestos; Safe Work 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 or as amended] and NSW Protection of the Environment Operations [Waste] Regulation [2014]

- 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, Safe Work 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 Safe Work NSW, NSW Office of Environment and Heritage [OEH] or MOSMAN Council.

Safe Work Method Statement - Removal and Disposal of Ceiling Dust that may contain Lead

All Contractors [PCBU] and 'workers' involved in the cleaning, repairing or replacement of ceilings are to follow the following procedures in order to minimise as far as is reasonably practicable, health risks from the ceiling dust. 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 in ceiling voids containing ceiling dust 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. Eye protection, complying with AS/NZS1336 and AS/NZS1337 whenever full face respirators are not used
- Ceiling voids are to be cleaned of accumulated dust before commencing any work involving partial or complete removal of the ceiling sheets.
- 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 ceiling dust "that may" contain lead 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 the release as far as is reasonably practicable, 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 the collected dust in approved plastic bags which are clearly labelled.
- All ceiling dust containing lead or other contaminants is to be disposed of as far as is reasonably practicable in a manner, and at as site, approved by the Safe Work NSW, NSW

Office of Environment and Heritage [OEH], appropriate disposal Authority or MOSMAN Council.

 To minimise as far as is reasonably practicable contamination of living areas of the residence, airless spraying of PVA to seal the cleaned surfaces is recommended whenever the ceiling is removed.

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 Safe Work NSW, NSW
 Office of Environment and Heritage [OEH], appropriate licensed disposal Authority or
 MOSMAN Council.

4. AREAS NOT ASSESSED

All areas associated with the proposed Contract works were able to be assessed with the exception of the skillion roof cavity.

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:

_ow Moderate ✓		Moderate to High		High		
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CONFIRMATION

This document confirms 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: Mark Spindler

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

Mark Spindler

Date of Issue: 13th November 2016