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12 December 2017

GF Morandini Earthworks Pty Ltd Frank Morandini 6 College Road Berrimah, NT 0828

Ref: J7590

ASBESTOS MANAGEMENT PLAN FOR 6 COLLEGE ROAD, BERRIMAH NT 0828

OCTIEF Pty Limited (OCTIEF) is pleased to submit the Asbestos Management Plan (AMP) for 6 College Road, Berrimah NT 0828.

No Asbestos or Asbestos Containing Materials were identified within the accessible areas of the subject site. It is essential that this AMP is readily accessible to all staff, contractors and visitors. This report is a controlled document and must be observed as such, as per your quality assurance program.

The person with management or control of the workplace is responsible for making this AMP known and accessible to all building occupants, site visitors and external contractors prior to any maintenance or project works being undertaken. The person with management or control of the workplace is also responsible for ensuring the AMP and asbestos register are updated in accordance with the relevant jurisdictions Work Health and Safety legislation.

Please do not hesitate to contact OCTIEF should you require any further information or assistance with the report or associated recommendations.

Yours faithfully,

OCTIEF Pty Ltd



GF MORANDINI EARTHWORKS PTY LTD ASBESTOS MANAGEMENT PLAN 6 COLLEGE ROAD, BERRIMAH NT 0828



REPORT PREPARED FOR:

GF Morandini Earthworks Pty Ltd

December 2017



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Project Manager:	Laura Smith
Prepared by:	Nicholas Cambridge
Reviewed by:	Laura Smith
Approved by:	Laura Smith
Version:	1.0
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Job #: J7590 Date: 12/12/2017

EXECUTIVE SUMMARY

OCTIEF Pty Limited (OCTIEF) was commissioned to undertake an asbestos audit with the purpose of identifying the presence of asbestos and asbestos containing materials (ACM) within the nominated building/s located at 6 College Road, Berrimah (the subject site). The subject site was audited on the 8th December 2017 by Nicholas Cambridge (Asbestos Assessor License Number: LAA001193).

The existence of asbestos and ACM within buildings and structures throughout Australia has created the need for specific management procedures to be developed and implemented. These procedures are designed to minimise health risks to all building occupants including visitors and contractors arising from the presence of asbestos and ACM.

The objectives of the asbestos audit were to:

- Identify or presume the presence of asbestos and ACM within the boundaries of the subject site;
- Carry out risk assessments for the identified or presumed ACM, taking into account the material type, friability, condition, surface treatment, location, quantity etc.;
- Compile an Asbestos Register; and
- Make recommendations for the management and control of the identified or presumed asbestos and ACM based on the risk assessment.

All recommended actions and works carried out must be done so in accordance with the Northern Territory Government Work Health and Safety Act 2011 (WHS Act) and Work Health and Safety Regulation 2011 (WHS Regulation), and the following codes of practice approved under section 274 of the WHS Act:

- Code of Practice: How to Manage and Control Asbestos in the Workplace; and
- Code of Practice: How to Safely Remove Asbestos.



Job #: J7590 Date: 12/12/2017

COMMENTS AND RECOMMENDATIONS

No asbestos or ACM was identified within the boundaries of the subject site. Areas that have not been accessed or sampled may still contain asbestos or ACM.

Under no circumstances should unidentified potential asbestos or ACM be disturbed in any way. If unidentified potential asbestos or ACM are found within the boundaries of the subject site, then that material must either be assumed to contain asbestos and be treated with the appropriate caution based on the level of risk, or a sample should be taken and analysed. If it is assumed to contain asbestos, it is considered to be asbestos for all legal purposes.





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Date: 12/12/2017

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Date: 12/12/2017

1. GENERAL INFORMATION

A person with management or control of a workplace must ensure that all buildings and/or structures built prior to 31 December 2003 are inspected for the presence of asbestos and ACM. Where asbestos or ACM has been identified, they must ensure that all persons entering the building and/or structure are aware of the presence and location of the asbestos or ACM and ensure an asbestos management plan (AMP) and asbestos register are developed, reviewed and revised in accordance with the WHS Regulations.

A person conducting a business or undertaking (PCBU) must not carry out, direct or allow a worker to carry out work involving asbestos if that work involves manufacturing, supplying, transporting, storing, removing, using, installing, handling, treating, disposing of or disturbing asbestos or ACM, except in prescribed circumstances. The prohibition on the supply of asbestos also prohibits the sale of asbestos or ACM.

The final prohibition for asbestos in the workplace came into effect on 31 December 2003. The following prohibitions do not apply if any of the work involving asbestos is any of the following:

- Genuine research and analysis;
- Sampling and identification in accordance with the WHS Regulations;
- Maintenance of, or service work on, non-friable asbestos or ACM, fixed or installed before 31
 December 2003, in accordance with the WHS Regulations;
- Removal or disposal of asbestos or ACM, including demolition, in accordance with the WHS regulations;
- Transport and disposal of asbestos and asbestos waste in accordance with jurisdictional legislation;
- Demonstrations, education or practical training in relation to asbestos or ACM;
- Management in accordance with the WHS Regulations of in situ asbestos that was installed or fixed before 31 December 2003;

A comprehensive list of exclusions to the prohibition can be found within the *Code of Practice for Management and Control of Asbestos in the Workplace.*

1.1 Legislative Requirements

The WHS Act and Regulations superseded the existing Occupational / Workplace Health and Safety Act and Regulations on 1 January 2012. The legislative requirements with regard to asbestos can be found in Chapter 8 of the WHS Regulations. Further information with regard to asbestos management in the workplace can be found in the following codes of practice approved under section 274 of the WHS Act:

- Code of Practice: How to Manage and Control Asbestos in the Workplace; and
- Code of Practice: How to Safely Remove Asbestos.



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Approved codes of practice are practical guides to achieving the standard of health, safety and welfare required under the WHS Act and Regulations. They apply to any person who has a duty of care in the circumstances described in the code. Codes of practice are admissible in court proceedings under the WHS Act and Regulations where they may be regarded as evidence of what is known about a hazard, risk or control and used to determine what is reasonably practical in the circumstances to which the code relates. Codes of Practices, unlike the WHS Act and Regulations, are not mandatory and a duty holder may choose to use some other way to achieve compliance with the WHS Act and Regulations. However, alternative methods must provide equivalent or higher standards of work health and safety than those suggested in the code of practices.

Through the synthesis of information provided in the WHS Act, WHS Regulations, and approved codes of practice, the following mandatory requirements are now in force.

- A person with management or control of a workplace must ensure, so far as reasonably practical, that all asbestos or ACM at the workplace is identified by a competent person. A competent person means a person who has acquired through training, qualification or experience the knowledge and skills to carry out the task;
- Any samples from materials at the workplace which are to be analysed for asbestos must be done so by a laboratory which is NATA-accredited for the relevant test method/s;
- If the presence of asbestos or ACM at the workplace is identified or presumed it must be clearly indicated and, if reasonably practicable to do so, have a label affixed to it;
- A person with management or control of a workplace must ensure that an asbestos register
 is prepared for the workplace and kept up to date. The asbestos register must record any
 asbestos or ACM identified at the workplace or assumed to be present. The asbestos register
 must also identify where asbestos or ACM are known to not be present at the workplace;
- If the asbestos register outlines that asbestos or ACM were identified or assumed to be
 present at the workplace, the person with management or control of that workplace must
 ensure that a management plan accompanies the asbestos register. The AMP must be kept
 up to date and made readily accessible to workers, health and safety representatives, or
 persons conducting a business or undertaking at the workplace; and
- The asbestos register and AMP must be reviewed if further asbestos or ACM is identified or presumed to be present within the workplace; asbestos is removed, disturbed, sealed or enclosed at the workplace; the plan is no longer adequate for managing asbestos or ACM at the workplace; or a health and safety representative requests a review. In the absence of these events occurring the asbestos register and AMP must be reviewed no less than once every 5 years.

1.2 Asbestos

The related health aspects of exposure to airborne asbestos fibres have been well documented. The inhalation of asbestos fibres is known to cause mesothelioma, lung cancer and asbestosis and other respiratory diseases. Asbestos poses a risk to health by inhalation whenever asbestos fibres become airborne and people are exposed to these fibres. Accordingly, exposure should be prevented.



Malignant mesothelioma is a cancer of the outer covering of the lung (the pleura) or the abdominal cavity (the peritoneum). It is usually fatal. Mesothelioma is caused by the inhalation of needle-like asbestos fibres deep into the lungs where they can damage mesothelium cells, potentially resulting in cancer. The latency period is generally between 35 and 40 years, but it may be longer, and the disease is very difficult to detect prior to the onset of illness.

Mesothelioma was once rare, but its incidence is increasing throughout the industrial world as a result of past exposures to asbestos. Australia has the highest incidence rate in the world.

Lung cancer has been shown to be caused by all types of asbestos. The average latency period from first exposure to developing the disease ranges from 20 to 30 years. Lung cancer symptoms are rarely felt until the disease has developed to an advanced stage.

Asbestosis is a form of lung disease (pneumoconiosis) directly caused by inhaling asbestos fibres, causing a scarring (fibrosis) of the lung tissue which decreases the ability of the lungs to transfer oxygen to the blood. The latency period of asbestosis is generally between 15 and 25 years.

Asbestos poses a risk to health by inhalation whenever respirable asbestos fibres become airborne. Airborne respirable fibre concentrations can be estimated using available data (for example, monitoring reports, data from scientific literature) or past experience (for example, monitoring reports) of the process in question. In cases of doubt, it may be necessary to confirm the estimates by measurement using the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres [NOHSC: 3003 (2005)].*

Exposure monitoring measures the levels of respirable fibres in the breathing zone of the worker while work is being undertaken. Exposure monitoring must be carried out by a competent person, who may include a licensed asbestos assessor or a person who has undertaken the endorsed unit of competency for licensed asbestos assessors. An occupational hygienist who has experience in asbestos exposure monitoring may also be used.

Where exposure monitoring is carried out, it is good practice to stop work and investigate the cause if the level of airborne asbestos in the breathing zone reaches half the exposure standard.

Although the need for exposure air monitoring will depend on the particular circumstances, the results may assist in assessing risks associated with asbestos.

Other forms of air monitoring that are relevant to asbestos work are discussed in more detail in the approved *Code of Practice: How to Safely Remove Asbestos*. These include:

- Control monitoring for ensuring that an enclosure or other controls used during asbestos removal are effective at preventing fibres from being found outside the work area; and
- Clearance monitoring to ensure that the work area is free of asbestos fibres prior to being certified for reoccupation.

The degree of respirable asbestos fibre released and subsequent exposure is in part dependent upon the matrix material binding the asbestos and its general condition.



There are six commercial varieties of asbestos which are currently regulated the approved *Code of Practice: How to Manage and Control Asbestos in the Workplace:*

- Actinolite (Amphibole)
- Amosite/Grunerite (Amphibole) commonly known as grey or brown asbestos
- Anthophyllite (Amphibole)
- Chrysotile (Serpentine group) commonly known as white asbestos
- Crocidolite (Amphibole) commonly known as blue asbestos
- Tremolite(Amphibole)

The highest health risk is associated with exposure to amphibole asbestos (all varieties with the exception of chrysotile) with crocidolite being cited as the material of greatest concern.

2. MANAGING ASBESTOS AND ASBESTOS CONTAINING MATERIALS

The person with management or control of the workplace is responsible for implementing the planning, control and management measures outlined within this report. It is also their responsibility to ensure that the management plan including asbestos register is regularly reviewed in accordance with the relevant legislative requirements.

OCTIEF shall retain a digital copy of the document on file for the purpose of re-issue and re-auditing. It is the responsibility of the person with management or control of the workplace to contact the authors to attain and revise the file when necessary.

Section 429 of the WHS Regulation states that the person with management or control of the workplace must ensure that the asbestos management plan is readily accessible to:

- A worker who has carried out, carries out or intends to carry out work at the workplace;
- Health and safety representatives who represent workers that carry out or intend to carry out work at the workplace;
- A person conducting a business or undertaking who has carried out, carries out or intends to carry out work at the workplace; and
- A person conducting a business or undertaking, who has required, requires or intends to require work to be carried out at the workplace.

It is imperative that this document be kept at the workplace to ensure its accessibility.

Section 428 of the WHS Regulation states that if the person with management or control of a workplace plans to relinquish management or control (for instance, selling the workplace or the business or undertaking), they must ensure, so far as practicable, that a copy of the asbestos register is given to the person who is assuming management or control of the workplace.

2.1 Training

Section 445 of the WHS Regulations state that a person conducting a business or undertaking must ensure workers who they reasonably believe may be involved in asbestos removal work in the



workplace of carrying out of asbestos-related work are trained in the identification, safe handling and suitable control measure for asbestos and ACM.

The required level of training is more general than that of a qualified asbestos removalist which required workers to undertake specific units of competency. Topics include:

- Asbestos related health risks;
- Historical uses or likely presence of asbestos or ACM;
- Processes and safe work procedures to be followed to prevent exposure;
- Personal Protective Equipment (PPE) and Respiratory Protective Equipment (RPE); and
- Exposure standards and control levels for asbestos.

Section 39 of the WHS Regulations states a person conducting a business or undertaking must ensure that information, training, and instruction provided to a worker is suitable and adequate, having regard to:

- The nature of the work carried out by the worker;
- The nature of the risks associated with the work at the time the information, training or instruction is provided; and
- The control measures are implemented.

The person must, so far as is reasonably practicable, ensure the information, training and instruction is provided in a way that is readily understandable by any person to whom it is provided.

For more information relating to training courses available please contact OCTIEF directly.

2.2 Record Keeping

The person with management or control of the workplace should maintain detailed records of all activities relating to asbestos works which are undertaken within the subject site, in line with all current legislation and codes of practices. The records should include:

- Copies of the AMP and asbestos register, including updates and amendments;
- Permits to conduct works in restricted work areas;
- Induction records of contractors, visitors and employees noting the presence and location of the AMP and asbestos register for the subject site;
- Records of all asbestos related works, including maintenance and removal;
- Clearance certificates relating to asbestos works; and
- Air monitoring certificates of analysis relating to any asbestos works.

2.3 Warning Signs

Section 424 of the WHS Regulations states that a person with management or control of a workplace must ensure where reasonably practicable, that the presence of asbestos or ACM is indicated by a label. In areas where it is not practicable to label asbestos or ACM, warning signs should be installed.



The purpose of warning signs and labels are to advise all relevant people on site that asbestos or ACM has been identified or assumed to be present and that an AMP exists. They should be located in a position near or on a specified area where asbestos or ACM was identified or assumed to be present. All warning signs must be compliant with AS 1319-1994 – Safety Signs for the Occupational Environment. Examples of warning signs and labels can be found in Appendix F – Example Warning Signs and Label.

Should you require warning labels or signs, please do not hesitate to contact OCTIEF directly.

2.4 Permit to Work System

Areas in which asbestos or ACM has been confirmed or assumed to be present are classified as restricted work areas. All works which may disturb asbestos or ACM within these areas are prohibited unless the person with control or management of the workplace has issued a permit to work to the parties undertaking the works.

The permit to work will authorise the listed signatories of the parties undertaking the works to access the restricted work area. It must detail the task/s to be performed, control measures and the conditions to be complied with during the access period. The purpose of the permit to work is to transfer responsibility for compliance with the WHS legislation and approved code of practices from the person with management or control of the workplace to the parties undertaking the works. On completion of the work, the listed signatories of the parties undertaking the works will relinquish the permit and return it to the person with management or control of the workplace. The person with management or control of the workplace is responsible for the supervision, enforcement and recording keeping of the permit to work system.

A permit to work template can be found in Appendix E – Example Permit to Work.

2.5 High Risk Areas

Areas of potential high risk should not be touched or disturbed in any way. Expert advice or assistance should be sought from a suitably qualified asbestos removalists or assessor prior to any works being conducted within these areas. Such areas include but are not limited to any identified heater banks, damaged or fragmented ACM, fire doors, boiler and pipe lagging, sprayed on insulation and other areas containing friable asbestos or ACM. All potential high risk areas identified within the boundaries of the subject site are listed in the asbestos register. For more information relating to the management of these areas, please contact OCTIEF directly.

2.6 Safe Work Practices

The asbestos register and management plan must be consulted prior to undertaking any works such as refurbishment, maintenance, or demolition in order to determine if any asbestos or ACM is present in the proposed work areas. Safe work practices must be in place prior to commencing any asbestos work or asbestos related works.





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Working with dry asbestos or ACM should be avoided wherever possible. Techniques that prevent or minimise the generation of airborne asbestos fibres must be employed at all times. Such techniques include but are not limited to the following:

- Wetting the asbestos or ACM with surfactants or wetting agents, such as detergent water;
- The use of thickened substances, pastes or gels, including hair gel and shaving cream, to cover
 the surface of asbestos or ACM being worked on (these substances should be compatible with
 the conditions of use, including temperature, and should not pose a risk to health);
- The use of shadow vacuuming; and
- Performing the task in a controlled environment (for instance, a ventilated enclosure).

Control measures must be employed for all asbestos work or asbestos related work. The use of high-speed abrasive power and pneumatic tools is prohibited under the WHS Regulations, except where used with dust suppression/extraction controls. These controls include local exhaust ventilation (LEV) dust control hoods that attach to the tool and isolate the area being worked on from the environment, ensuring that dust is captured.

Examples of safe work practices can be found in Appendix D of this report.

2.7 Asbestos Removal

All asbestos removal works must be conducted by a licensed asbestos removalist unless specified otherwise in the WHS Regulations.

All Friable asbestos removal works must be performed by a Class A licensed asbestos removalist. All Friable asbestos or ACM must be removed as soon as reasonably practical, in accordance with the WHS Regulations and the approved *Code of Practice: How to Safely Remove Asbestos*. Class A licensed asbestos removalist can remove any amount or quantity of friable and non-friable asbestos or ACM, and any asbestos contaminated dust (ACD).

Non-friable asbestos removal works that exceed 10m² must be performed by a Class B licensed asbestos removalist, in accordance with WHS Regulations and the approved *Code of Practice: How to Safely Remove Asbestos*. Class B licensed asbestos removalist can also remove any ACD except that associated with friable asbestos removal works. Note: If determined that the non-friable material should be removed, it must be removed as soon as practical.

No license is required in order remove: up to $10m^2$ of non-friable asbestos or ACM; ACD that is associated with the removal of less than $10m^2$ of non-friable asbestos or ACM; and other minor ACD contaminations.

Other control measures to ensure that people are not exposed to airborne asbestos should only be implemented if it is not reasonable practicable to remove that asbestos. Examples of such control measures include sealing or encapsulating the asbestos or ACM.

Detailed information regarding asbestos removal can be found in the approved *Code of Practice:* How to Safely Remove Asbestos.



2.8 Asbestos Response Procedures

Asbestos response procedures may be required to be followed where existing ACM have been inadvertently disturbed through actions of staff, maintenance personnel, contractors, visitors, members of the public or damage by severe weather conditions (e.g. hail damage to a corrugated asbestos cement roof).

Where such incidences occur, the relevant Site Manager and/or Site Safety Officer shall be notified immediately. The immediate shall be quarantined, with all access restricted.

It is recommended that expert advice be sought from a suitably qualified asbestos removalists or assessor prior to any works being conducted within these areas.

All such incidences are to be recorded, categorised and notified to the relevant positions in timely and efficient manner as per the sites own incident management framework.

2.9 Occupational Exposure Standards

Where occupational exposure to asbestos is likely to occur, exposure is not to exceed the National Exposure Standard (NES). Occupational exposure is measured using the Membrane Filter Method, by collecting a sample of air from the breathing zone of a person, over minimum four hours duration. The current occupational exposure standards for asbestos are:

- Chrysotile (white) asbestos 0.1 fibres per millilitre;
- Amosite (brown) asbestos 0.1 fibres per millilitre;
- Crocidolite (blue) asbestos 0.1 fibres per millilitre;
- Other forms of asbestos fibres 0.1 fibres per millilitre; and
- Any mixture of fibre types or where the composition is unknown 0.1 fibres per millilitre;

All precautions should be taken to completely minimise dust generation and appropriate PPE and respiratory protection (RPE) should be work at all times when disturbing asbestos or ACM or entering a high risk area.

2.10 Air Monitoring For Asbestos Fibres

Air monitoring for asbestos fibres may be necessary during asbestos removal projects. Depending on the type of asbestos or ACM and the associated risk rating, there are different methods of removal that are required to be employed. This is in order to ensure that exposure to airborne asbestos fibres is minimised and controlled in such a way that airborne concentrations of asbestos fibres do not exceed the control levels and exposure standards. 'Control levels' are airborne asbestos fibre concentrations which, if exceeded, indicate there is a need to review current control measures or take other action. These control levels are occupational hygiene 'best practice', and are not health-based standards.

Control level	Control/Action
<0.01 fibres/ml	Continue with control measures
≥0.01 fibres/ml	Review control measures
≥0.02 fibres/ml	Stop removal work and find cause



3. RISK ASSESSMENT AND MANAGEMENT

ACM represents a risk to human health only when respirable asbestos fibres become airborne, and are subsequently inhaled. The risk relates to the potential level of exposure; meaning the risk to human health increase as the level of airborne respirable fibres in an environment increases.

The potential level of exposure associated with an ACM is to be assessed using the tools below (Figure 1 and Table 1). Where an uncontrolled item results in a high or extreme risk rating, control measures are required to be implemented to reduce the risk to moderate or to eliminate the risk. Once controls are implemented, all residual risk ratings should be no higher than moderate.

		Consequence Rating				
		4 - Major	5 - Severe			
	5 – Almost Certain	Extreme – 9	Extreme – 10			
Likelihood Rating	4 - Likely	High – 8	Extreme – 9			
d Ra	3 - Possible	High – 7	High – 8			
lihoo	2 - Unlikely	Moderate – 6	High – 7			
Like	1 - Rare	Moderate – 5	Moderate – 6			

Figure 1: Risk Matrix

Table 1: Risk Assessment Definitions

		Typically includes 'Partially Sealed' / 'Unsealed' ACM found in a 'Poor' condition,
	Almost Certain	AND is either accessible to building occupants on a regular basis OR has the
	/	potential to enter the Supply Air AND is likely to have already generate elevated
		levels (>0.01f/ml) or airborne asbestos.
		Typically includes 'Unsealed' ACM found in a 'Fair' condition or 'Sealed' ACM
	Likely	found in a 'Poor' Condition, AND is either accessible to building occupants on a
		regular basis OR has the potential to enter the Supply Air AND is unlikely to
_		generate elevated levels (>0.01f/ml) or airborne asbestos.
Likelihood		Typically includes 'Unsealed' ACM found in a 'Good' Condition or 'Sealed' /
Ę	Possible	'Partially Sealed' ACM found in a 'Fair' Condition, AND is either accessible to
,ik		building occupants on a regular basis OR has the potential to enter the Supply
		Air AND is unlikely to generate elevated levels (>0.01f/ml) or airborne asbestos.
		Typically includes 'Unsealed' ACM found in a 'Very Good' Condition or 'Sealed'
	Unlikely	and "Partially Sealed' ACM found in a 'Good' Condition, has a low level of
		disturbance AND is not likely to generate measurable levels (<0.01f/ml) of
		airborne asbestos in its general state.
	Rare	Typically includes 'Sealed' and 'Partially Sealed' ACM found in a 'Very Good'
	Naie	condition, has a low level of disturbance AND is not likely to generate
		measurable levels (<0.01f/ml) of airborne asbestos in its general state.
	Severe	Typically Friable ACM
. 9	Severe	Can cause multiple fatalities or significant irreversible effects.
ien		Very serious long-term impairment of ecosystem function.
Consequence		Typically Non-friable ACM.
Suc	Major	Can cause a single fatality or irreversible health effects or disabling illness to one
ຽ		or more persons.
		Serious long-term impairment of ecosystem function.



All ACM identified shall have an overall risk rating recorded. As asbestos fibres are a known carcinogen, the associated risk rating of an ACM will be either 'Moderate', 'High', 'Extreme' or 'Unknown'.

Utilising this risk management process, ACM will never result in a risk rating of low. This is due to the consequence of a single exposure to a measurable level of respirable airborne asbestos fibres (>0.01 f/ml) may result in either a single fatality or irreversible health effect.

Qualified Occupational Hygienists have conducted this audit and utilised methods including but not limited to visual inspection, sampling of potential asbestos or ACM, and NATA accredited laboratory analysis of samples. Where practical, the presence or absence of asbestos has been established through laboratory analysis. The type location and condition of asbestos found on the site has been identified and assessed within the asbestos register. On the basis of the information obtained, risk assessments have been conducted on all entries within the asbestos register.

The first step in managing the risk of asbestos or ACM in buildings or structures is having an asbestos audit conducted in order to identify the following:

- Presence of asbestos or ACM;
- Type of asbestos or ACM;
- Location of asbestos or ACM; and
- Condition of asbestos of ACM.

Following the audit, a risk assessment of the potential health risk to personnel, other building occupants (e.g. subcontractors) and the public is conducted. The risk assessment incorporates the points mentioned above as well as the actual hazard (where the hazard is confirmed through laboratory analysis of samples), condition, and accessibility of the asbestos or ACM. It is imperative that this assessment is carried out by a suitably trained and experienced person using a standard risk assessment approach (e.g. AS/NZS ISO 31000:2009). Risk assessment of asbestos and ACM must include the following factors:

- Friability of asbestos or ACM;
- Accessibility of asbestos or ACM;
- Type of asbestos or ACM;
- Quantities of asbestos or ACM present;
- Potential for transport of respirable asbestos fibres by air movement;
- Ventilation factors;
- Number of persons that may potentially be exposed;
- Frequency of potential exposures; and
- Activities that may disturb the asbestos or ACM.

These factors must be carefully considered in order to determine whether a real risk of exposure to asbestos exists. If deemed necessary, this can be achieved by assessing the potential or real exposure in terms of National Exposure Standards (NES). The condition of the asbestos or ACM and the likelihood of contaminant release; access by personnel; potential personnel exposure; and the length of time for which exposure may occur, are each factors to be taken into account. When the asbestos



or ACM is deemed to potentially release airborne respirable fibres, air monitoring may be conducted to determine is airborne concentrations exceed the NES.

The selection of a suitable management strategy to control the risk of exposure also requires an experienced and knowledgeable person to implement the most suitable control option. Where possible the standard hierarchy of risk control should be followed with avoidance the best and most preferable options, although where a hazard already exists on of the other three control strategies or a combined approach should be implemented. The choice of which to implement will depend on the best practice management, locally available options and cost. Note that cost should not be the deciding factor in choosing which option or combination of options to implement.



- Avoid;
- Eliminate;
- Implement engineering controls; and
- Implement administration controls (including Personal Protective Equipment)

For asbestos and ACM, examples of options include:

- Labelling;
- Training;
- Permit to work systems;
- Restricted Access;
- Enclosure or encapsulation; and
- Removal.

The selection of the most appropriate control option, or a combination of options, requires consultation and coordination between the person with management or control of the workplace, and building occupants.

4. LIMITATIONS

There is no guarantee, expressed or implied, that all asbestos and ACM has been identified or presumed to be present within the boundaries of the subject site. Areas where samples have not been taken and analysed, including samples which have been classified as 'similar to' other samples, and areas not accessed during the audit must be investigated further and all care and caution taken in the event of future project building work, including refurbishment, removal and/or demolition work.

All measurements and quantities mentioned in this report are approximations only and should not be relied on for asbestos removal tendering purposes.

Asbestos or ACM may be present in inaccessible areas. Inaccessible areas are areas that cannot be accessed during normal daily activities or routine maintenance. Examples of inaccessible areas that may contain asbestos or ACM include, but are not limited to:



 A cavity in a building that is completely (or almost completely) enclosed and suspected of containing asbestos (based on where asbestos is located elsewhere in the building) and access is only possible through destruction of part of the walls of the cavity;

- The inner lining of an old boiler pressure vessel (information on this type of vessel suggests it
 contains asbestos) and the inner lining is not accessible due to the design and operation of
 the boiler and access can only be via partial destruction of the outer layer;
- Vinyl tiles or cement based flooring that may contain asbestos, which have had a number of layers of non-ACM placed over them and secured, where the layers above it have been well secured and require some form of destruction in order to access the vinyl or cement based material that may contain asbestos;
- Enclosed riser shafts in multi-storey buildings containing cables that may be insulated with ACM;
- Underground services such as electrical conduits, water pipes, and fire fighting pipelines may contain or be contracted from asbestos or ACM; and
- Air conditioning ducts that may contain asbestos gaskets or linings.

Unless otherwise mentioned in the asbestos register, electrical switchboards, electrical cabling, plant equipment / machinery, air conditioning units, boilers, pumps, transformers, generations and any other equipment or machinery not specifically mentioned which were 'live' at the time of the audit were not accessed or inspected for safety reasons.

Fire door cores were accessed only along the top edge of the door. No lock or door mechanisms were dismantled. If the door was fully enclosed or the edges beaded, the fire door is classed as inaccessible.

Subject sites which have undergone renovation and refurbishments throughout their lifetime have a large variety and range of potential asbestos or ACM. Representative samples from these potential asbestos or ACM are taken for identification purposes however without sampling each individual sheet, panel or area, the results of the sampling can only give an indication of the presence of asbestos. If unsure, the material must either be assumed to contain asbestos and be treated with the appropriate caution based on the level of risk, or a sample should be taken and analysed. If it is assumed to contain asbestos, it is considered to be asbestos for all legal purposes.

5. AREA NOT ACCESSED

In addition to the inaccessible areas listed in the limitations, the following areas were not accessed and therefore, the possible presence of asbestos of ACM cannot be ruled out

- External Main switchboard
- Warehouse Switchboard DB2 Southern elevation
- Warehouse Switchboard DB4 Southern elevation
- Warehouse Switchboard DB3 Eastern elevation



6. REFERENCES

Australian / New Zealand Standard® 1716 2012. Respiratory Protective Devices.

Australian / New Zealand Standard® ISO 3100:2009. Risk Management – Principles and Guidelines

Australian Standard® AS1319 1994. Safety Signs for the Occupational Environment.

Australian / New Zealand Standard® 1715 2009. Selection Use and Maintenance of Respiratory Protective Devices.

Google Earth 2016

National Occupational Health and Safety Commission (NOHSC) (1995), *Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment* [NOHSC:3008(1995)], NOHSC, Canberra, Australia

National Occupational Health and Safety Commission (NOHSC) (2005), *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC:3003(2005)], NOHSC, Canberra, Australia

Northern Territory Government, Code of Practice: How to Management and Control Asbestos in the Workplace

Northern Territory Government, Code of Practice: How to Safely Remove Asbestos

Northern Territory Government, Work Health and Safety Act 2011

Northern Territory Government, Work Health and Safety Regulation 2011



APPENDIX A – ASBESTOS REGISTER



OCTIEF PTY LTD
ABN: 82 163 1772 478
Unit 34 /53-57 Link Drive Yatala, QLD 4207
Enquiries: 1800 OCTIEF (628433)
Fax: (07) 382 6895
corporate@octief.com.au
www.octief.com.au

Date: 11/12/2017

Job #: J7590

Audit Number:	J7590	Client Name:	GF Morandini Earthworks Pty Ltd	Client Contact:	Frank Morandini
Version:	1.0	Site Name / Address:	6 College Road, Berrimah		

Si	te Name
6 College I	Road, Berrimah
Site Ins	pection Details
Asbestos Assessor:	Nicholas Cambridge
Inspection Date:	08/12/2017
Re-inspection date:	N/A
Sit	te Details
Number of Building / Structures:	1
Approximate Age of Buildings / Structures:	40





Loca	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	External	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:		Sample #:	-	
Position Installed:	All Externals	Condition:	-	Sample Result:	-	
Primary Location:	Reception	Friability:	-1	Risk Rating:	-	
Secondary Location:	•)	Surface Treatment:	-	Recommendation:	-	The state of the s
Comments:	Brick walls. Metal soffi	ts. Metal fascias. Metal sun ho	ods. Metal and PVC dow	n pipes.		Urgent Action Required?

Location Details		Mate	rial Details	Results / Management Details		Photographs
Building ID:	External	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Other - Refer to Comments	Condition:	-	Sample Result:	-	THE PARTY OF THE P
Primary Location:	Car port	Friability:	-	Risk Rating:	-	
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	
Comments:	Brick pavers. Metal columns.	Metal roofing.				Urgent Action Required?



Location Details		Mate	Material Details		nagement Details	Photographs
Building ID:	External	Material Type:	Other - Refer to Comments	Status:	Not Present (Tested)	
Elevation:	Ground Floor	Quantity:	•	Sample #:	76810	
Position Installed:	Wall	Condition:	-	Sample Result:	No Asbestos Detected	
Primary Location:	Reception	Friability:	-	Risk Rating:	-	A.
Secondary Location:	All elevations	Surface Treatment:	-	Recommendation:	-	
Comments:	Textured paint to exte	rnal brick walls				Urgent Action Required?
comments:	restured paint to exte	inai brick walls.				

Loca	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	External	Material Type:	Mastic / Filler	Status:	Not Present (Tested)	
Elevation:	Ground Floor	Quantity:	35 - lm	Sample #:	76811	
Position Installed:	Wall	Condition:	-	Sample Result:	No Asbestos Detected	
Primary Location:	Reception	Friability:		Risk Rating:	-	
Secondary Location:	Southern elevations	Surface Treatment:	-	Recommendation:		
Comments:	Mastic to the intersection	of the external brick walls.				Urgent Action Required?

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Loca	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs	
Building ID:	External	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)		
Elevation:	Ground Floor	Quantity:	1 - Item	Sample #:	-		
Position Installed:	Electrical Component Box	Condition:	-	Sample Result:	\ -	100	
Primary Location:	Car port	Friability:	-	Risk Rating:	•		
Secondary Location:	Main switchboard	Surface Treatment:	-	Recommendation:	-		
Comments:	No access to internal compo	nents of main switch boa	ard due to risk of electric	shock		Urgent Action Required?	
			,			No	

Loca	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	External	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	NO ARE AG
Elevation:	Ground Floor	Quantity:	•	Sample #:		AND THE REST OF THE PERSON OF
Position Installed:	All Externals	Condition:	-	Sample Result:	-	
Primary Location:	Storage shed	Friability:	-	Risk Rating:	-	
Secondary Location:	Southwestern area of site	Surface Treatment:	-	Recommendation:		
Comments:	Metal walls and roof. Concre	te slab to floor.				Urgent Action Required?

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Location Details		Mate	Material Details		nagement Details	Photographs
Building ID:	External	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	•	
Position Installed:	All Externals	Condition:	-	Sample Result:	-	
Primary Location:	Warehouse	Friability:	- /	Risk Rating:	·	
Secondary Location:	South elevation	Surface Treatment:	-	Recommendation:	-	
Comments:	Metal sheeting to walls	and roof.				Urgent Action Required?

Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	External	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	All Externals	Condition:	-	Sample Result:		
Primary Location:	Warehouse	Friability:	-	Risk Rating:		
Secondary Location:	West elevation	Surface Treatment:	-	Recommendation:	-	
Comments:	Metal sheeting to walls	and roof. Metal support colu	mns.			Urgent Action Required?

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Loca	Location Details		Material Details		nagement Details	Photographs
Building ID:	External	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	All Externals	Condition:		Sample Result:	-	1
Primary Location:	Warehouse	Friability:	-	Risk Rating:	- 1	
Secondary Location:	North elevation	Surface Treatment:	-	Recommendation:	-	
Comments:	Metal sheeting to walls	and roof.				Urgent Action Required?

Location Details		Mate	Material Details		nagement Details	Photographs	
Building ID:	External	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)		
Elevation:	Ground Floor	Quantity:		Sample #:	-		
Position Installed:	All Externals	Condition:	-	Sample Result:	-		
Primary Location:	Warehouse	Friability:	÷	Risk Rating:	-	The latest the second	
Secondary Location:	East elevation	Surface Treatment:	-	Recommendation:	-	**************************************	
Comments:	Metal sheeting to walls	and roof. Metal support colu	mns.			Urgent Action Required?	

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Location Details		Mate	Material Details		Results / Management Details		Photographs	
Building ID:	External	Material Type:	Mastic / Filler	Status:	Not Present (Tested)			
Elevation:	Ground Floor	Quantity:	35 - lm	Sample #:	76812	Market Control of the	1	
Position Installed:	Wall	Condition:	•	Sample Result:	No Asbestos Detected			
Primary Location:	Reception	Friability:	•	Risk Rating:	•			
Secondary Location:	Eastern elevation	Surface Treatment:	•	Recommendation:	-			
Comments:	Mastic to the intersection	n of the external brick walls.					Urgent Action Required?	

Location Details		Mate	Material Details		nagement Details	Photographs	
Building ID:	External	Material Type:	Cement Based	Status:	Not Present (Tested)		
Elevation:	Ground Floor	Quantity:	1 - Item	Sample #:	76813		
Position Installed:	Preformed Moulded Product	Condition:	-	Sample Result:	No Asbestos Detected		
Primary Location:	Reception	Friability:	-	Risk Rating:	-		
Secondary Location:	Southeast corner of building	Surface Treatment:	-	Recommendation:	-		
Comments:	Fibre cement communicat	ions pit to southeast corne	r of building.			Urgent Action Required?	

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Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:		Sample #:	/	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	2	
Primary Location:	Office 1	Friability:		Risk Rating:	-	
Secondary Location:	•	Surface Treatment:	-	Recommendation:	-	
Comments:	Plaster ceiling tiles. Brick v	valls Rubber matting to co	ncrete slab floor.			Urgent Action Required?
Comments	, laster denning thes. Brick v	tans. Hazza. Matting to co				

Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:		Sample Result:	-	
Primary Location:	Office 2	Friability:	Ī	Risk Rating:	-	
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	
Comments:	Plaster ceiling tiles. Brick a	nd timber walls. Carpet to	concrete slab floor.			Urgent Action Required?

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Location Details		Mate	Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:		
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Office 3	Friability:	-	Risk Rating:		
Secondary Location:	-	Surface Treatment:	Ē	Recommendation:	-	
Comments:	Plaster ceiling tiles. Brick a	nd timber walls. Carpet to	concrete slab floor.			Urgent Act Require
		and per to				-

Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	-
Primary Location:	Office 4	Friability:	-	Risk Rating:	•	
Secondary Location:	- ,	Surface Treatment:	-	Recommendation:		
Comments:	Plaster ceiling tiles. Brick a	nd timber walls. Carpet an	d ceramic tiles to concret	te slab floor.		Urgent Action Required?

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Loca	Location Details		rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	1
Position Installed:	Walls / Floor / Ceiling	Condition:	•	Sample Result:	-	
Primary Location:	Reception	Friability:	-	Risk Rating:	-	
Secondary Location:	•	Surface Treatment:	-	Recommendation:	-	
Commonto	Plaster ceiling tiles. Brick,		alla Cannat and assemiat	siles to consiste also floor		Urgent Action Required?
Comments:	riaster cening tiles. Brick, j	Diasterboard and timber W	alls. Carpet and ceramic t	tiles to concrete slab floor.		-

Locat	ion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	The second second
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:		Sample Result:	- 1	
Primary Location:	Office 5	Friability:	-	Risk Rating:		
Secondary Location:		Surface Treatment:	-	Recommendation:	-	
Comments:	Plaster ceiling tiles Brick a	nd timber walls. Carpet tile	es to concrete slab floor			Urgent Action Required?

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Location Details		Material Details		Results / Management Details		Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:		
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Office 6	Friability:	-	Risk Rating:	-) (
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	
Comments:	Plaster ceiling tiles. Brick a	nd timber walls. Carpet tile	es to concrete slab floor.			Urgent Action Required?

Locat	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-)	
Primary Location:	Office 7	Friability:	-	Risk Rating:	-	
Secondary Location:		Surface Treatment:	-	Recommendation:	-	
Comments:	Plaster ceiling tiles. Brick ar	nd plasterboard walls. Cera	amic tiles to concrete sla	b floor.		Urgent Action Required?

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Loca	Location Details		Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	THE PARTY OF THE P
Position Installed:	Walls / Floor / Ceiling	Condition:	<u>.</u>	Sample Result:	-	
Primary Location:	Office 8	Friability:	-	Risk Rating:	-	
Secondary Location:	1	Surface Treatment:	-	Recommendation:	-	A Company of the Comp
Comments:	Plaster ceiling tiles. Brick a	nd plasterboard walls. Cer	emic tiles to concrete sla	h floor		Urgent Action Required?
Comments:	riaster centing tiles. Drick a	na piasterboara Walls. Cere	armic thes to concrete sia	b lioot.		-

Location Details		Mate	Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	SAME NAME OF THE PARTY OF THE P
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Office 9	Friability:	-	Risk Rating:	-	
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	· · · · · · · · · · · · · · · · · · ·
Comments:	Plaster cailing tiles Bri	ck and plasterboard walls.				Urgent Action Required?
Comments.	riaster ceiling tiles. bir	ck and plasterboard wans.				

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Location Details		Material Details		Results / Management Details		Photographs
Building ID:	Internal	· Material Type:	Vinyl Floor Coverings	Status:	Not Present (Tested)	
Elevation:	Ground Floor	Quantity:	20 - m2	Sample #:	76814	
Position Installed:	Floor	Condition:	•	Sample Result:	No Asbestos Detected	
Primary Location:	Office 9	Friability:		Risk Rating:	-	
Secondary Location:	-	Surface Treatment:	•	Recommendation:	-	
Comments:	Blue vinyl sheeting to floor		· ·			Urgent Action Required

Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:		
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	·	
Primary Location:	Office 10	Friability:	-	Risk Rating:		
Secondary Location:	-	Surface Treatment:	·	Recommendation:	-	
Comments:	Plaster ceiling tiles. Brick a	nd plasterboard walls. Carp	pet tiles to concrete slab	floor. Timber filler panel to 1	riser.	Urgent Action Required?

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Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	. Status:	Not Present (Not Tested)	No.
Elevation:	Ground Floor	Quantity:	-	Sample #:	Ē	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Hallway	Friability:	-	Risk Rating:	-	
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	
Comments:	Plaster ceiling tiles. Brick, p	blasterboard and timber wa	alls. Ceramic tiles to conc	rete slab floor.		Urgent Action Required?
	,					

Loca	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Internal	Material Type:	Mastic / Filler	Status:	Not Present (Tested)	
Elevation:	Ground Floor	Quantity:	4 - Im	Sample #:	76816	
Position Installed:	Wall	Condition:	-	Sample Result:	No Asbestos Detected	
Primary Location:	Hallway	Friability:	-	Risk Rating:	-	A PARTIE OF THE
Secondary Location:	Expansion joint to brickwork	Surface Treatment:	-	Recommendation:	-	
Comments:	Mastic to expansion joint	t.				Urgent Action Required?

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Location Details		Mate	Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Kitchenette	Friability:	-	Risk Rating:	-	N. N.
Secondary Location:		Surface Treatment:	-	Recommendation:		A Transa
Comments:	Plaster ceiling tiles. Brick w	valls. Ceramic tiles to concr	ete slab floor.			Urgent Action Required?

Location Details		Material Details		Results / Management Details		Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	The second second
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	In the
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Male bathroom	Friability:	-	Risk Rating:		
econdary Location:	Excluding cubicle partitions	Surface Treatment:	-	Recommendation:	-	THE STATE OF THE S
Comments:	Plaster ceiling tiles. Brick wall	s. Caramic tiles to conc	rete slah floor. Timber fil	ller panel to riser		Urgent Acti Required

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Loca	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Internal	Material Type:	Cement Based	Status:	Not Present (Tested)	
Elevation:	Ground Floor	Quantity:	15 - m2	Sample #:	76815	a 11
Position Installed:	Wall	Condition:	-	Sample Result:	No Asbestos Detected	
Primary Location:	Male bathroom	Friability:		Risk Rating:	-	
Secondary Location:	Cubicle partitions	Surface Treatment:	•	Recommendation:	-	
Comments:	Fibre cement cubicle par	tition walls.			(***)	Urgent Action Required?
	į.					-

Locat	ion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:		
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	·	1
Primary Location:	Female bathroom	Friability:	-	Risk Rating:	-	To The State of th
Secondary Location:	Excluding cubicle partitions	Surface Treatment:	- \	Recommendation:	•	小人数村往野
						Urgent Action Required?
Comments:	Plaster ceiling tiles. Brick wall	s. Ceramic tiles to concr	ete slab floor. I imber fill	ler panel to riser.		· ·

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Locat	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Internal	Material Type:	Cement Based	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	15 - m2	Sample #:	Similar to 76815	n 11
Position Installed:	Wall	Condition:	-	Sample Result:	No Asbestos Detected	
Primary Location:	Female bathroom	Friability:	-	Risk Rating:	-	
Secondary Location:	Cubicle partitions	Surface Treatment:		Recommendation:	-	* n
				1		Urgent Action Required?
Comments:	Fibre cement cubicle par	tition walls.				

Locat	ion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Cleaners store	Friability:	2	Risk Rating:		
Secondary Location:	-,	Surface Treatment:	-	Recommendation:	-	(1) 连曲
Comments:	Plaster ceiling tiles. Brick w	valls. Ceramic tiles to concr	ete slah floor			Urgent Action Required?
comments.	riaster ceiling thes. brick w	rails. Ceramic tiles to conci	ete siab noor.			-

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Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	- , ,	
Primary Location:	Office 11	Friability:	1	Risk Rating:	-	
Secondary Location:	•	Surface Treatment:	-	Recommendation:	•	
Comments:	Plaster ceiling tiles. Brick v	valls. Ceramic tiles to concr	ete slab floor		C.	Urgent Action Required?
· ·	Traster centilig tiles. Brick v	and determine they to delive				

Location Details		Mate	Material Details		nagement Details	Photographs	
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)		
Elevation:	Ground Floor	Quantity:	-	Sample #:	-		
osition Installed:	Ceiling	Condition:	-	Sample Result:	-		
rimary Location:	Throughout	Friability:	-	Risk Rating:	-	· _	
ondary Location:	Ceiling void	Surface Treatment:	-	Recommendation:	-		
						Urgent Action Required?	
Comments:	Synthetic ceiling insula	ation throughout. Metal structu	iral frames work. Concre	te siab ceiling.		-	

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Locat	Location Details		Material Details		nagement Details	Photographs	
Building ID:	Internal	Material Type:	Mastic / Filler	Status:	Not Present (Tested)	The state of the s	
Elevation:	Ground Floor	Quantity:	50 - lm	Sample #:	76820		
Position Installed:	Plant, Equipment & Machinery	Condition:	-	Sample Result:	No Asbestos Detected		
Primary Location:	Ceiling	Friability:	-	Risk Rating:	-		
Secondary Location:	Air conditioning ducting	Surface Treatment:	-	Recommendation:	-		
						Urgent Action Required?	
Comments:	Mastic to air conditioning d	uctwork throughout ceilir	ng voia.			-	

Locat	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Demountable	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	All Externals	Condition:	-	Sample Result:	-	
Primary Location:	All elevations	Friability:	-	Risk Rating:	-	
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	
Comments:	Metal sheeting to walls	and roof				Urgent Action Required?
comments.	ivictal sheeting to walls	, and roon.			,	- W

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Locat	Location Details		rial Details	Results / Management Details		Photographs
Building ID:	Demountable	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Ceiling	Condition:	-	Sample Result:		
Primary Location:	Internal	Friability:	-	Risk Rating:	-	
Secondary Location:	-	Surface Treatment:		Recommendation:	- '	Urgent Action
	Plasterboard ceiling. P	lectorheard walls				Required?
Comments:	Plasterboard ceiling. Pl	laster bourd walls.				

Locat	ion Details .	Mater	rial Details	Results / Mar	nagement Details	Photographs
Building ID:	Demountable	Material Type:	Vinyl Floor Coverings	Status:	Not Present (Tested)	
Elevation:	Ground Floor	Quantity:	20 - m2	Sample #:	76817	
Position Installed:	Floor	Condition:	-	Sample Result:	No Asbestos Detected	
Primary Location:	Internal	Friability:	-	Risk Rating:	-	
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	L. Control of the con
Comments:	Blue vinyl sheeting to floor.			0.00		Urgent Actio Required?
Comments:	Blue vinyi sneeting to 11001.					

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Loca	Location Details		Material Details		nagement Details	Photographs
Building ID:	Demountable	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Level 1	Quantity:		Sample #:	-	
Position Installed:	Walls / Ceiling	Condition:	-	Sample Result:	-	A CONTRACTOR OF THE PARTY OF TH
Primary Location:	Internal	Friability:	-	Risk Rating:	-	
Secondary Location:	-	Surface Treatment:	-	Recommendation:		
	T					Urgent Act Require
Comments:	Timber paneling to ceili	ng anu wans.				-

Location Details		Mate	Material Details		nagement Details	Photographs
Building ID:	Demountable	Material Type:	Vinyl Floor Coverings	Status:	Not Present (Tested)	
Elevation:	Level 1	Quantity:	20 - m2	Sample #:	76818	
Position Installed:	Floor	Condition:	-	Sample Result:	No Asbestos Detected	
Primary Location:	Internal	Friability:	- ,	Risk Rating:	-	
Secondary Location:		Surface Treatment:	-	Recommendation:	-	
					•	Urgent Actio Required?
Comments:	Brown vinyl sheeting to	o floor. Top layer of sheeting.				-

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Loca	Location Details		Material Details		nagement Details	Photographs	
Building ID:	Demountable	Material Type:	Vinyl Floor Coverings	Status:	Not Present (Tested)		
Elevation:	Level 1	Quantity:	20 - m2	Sample #:	76819		
Position Installed:	Floor	Condition:		Sample Result:	No Asbestos Detected		
Primary Location:	Internal	Friability:	-	Risk Rating:	-		
Secondary Location:	. /	Surface Treatment:	-	Recommendation:	-	and the same of th	
						Urgent Action Required?	
Comments:	Cream vinyl sheeting to f	oor. Bottom layer of sheetii	ng.				

Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Level 1	Quantity:		Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Records store room	Friability:	-	Risk Rating:		
Secondary Location:	-	Surface Treatment:	-	Recommendation:	•	
Comments	Diastor coiling tiles Brick a	and timber walls. Ceramic t	iles to concrete slah floo		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Urgent Action Required?
Comments:	Plaster ceiling tiles. Brick a	and timber walls. Ceramic t	iles to concrete slab floo	r.		

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Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Level 1	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Lunchroom	Friability:	-	Risk Rating:	-	THE ART
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	
Comments:	Plaster ceiling tiles. Brick an	d timber walls. Ceramic ti	les to concrete slab flooi	Timber panels to bulkhead		Urgent Action Required?

Locat	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs	
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)		
Elevation:	Level 1	Quantity:	- (Sample #:	-		
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-		
Primary Location:	Female bathroom	Friability:	-	Risk Rating:		0	
Secondary Location:	Excluding cubicle partitions	Surface Treatment:	- 2	Recommendation:	•		
Comments:	Plaster ceiling tiles. Brick wall	s. Ceramic tiles to conc	rete slab floor. Timber pa	anels to riser.		Urgent Action Required?	

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Loca	Location Details		Material Details		nagement Details	Photographs	
Building ID:	Internal	Material Type:	Cement Based	Status:	Not Present (Tested)		
Elevation:	Level 1	Quantity:	15 - m2	Sample #:	76821		
Position Installed:	Wall	Condition:	-	Sample Result:	No Asbestos Detected		
Primary Location:	Female bathroom	Friability:	-	Risk Rating:	-		
Secondary Location:	Cubicle partitions	Surface Treatment:	-	Recommendation:	-	1	
	Fibra companies subjete more	titian walle				Urgent Action Required?	
Comments:	Fibre cement cubicle par	ution wans.				-	

Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	11/10
Elevation:	Level 1	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:	_	Sample Result:	-	E
Primary Location:	Male bathroom	Friability:	-	Risk Rating:	- (-5 Th
Secondary Location:	Excluding cubicle partitions	Surface Treatment:	-	Recommendation:	-	
Comments:	Plaster ceiling tiles. Brick wall	s. Ceramic tiles to conc	rete slab floor. Timber pa	anels to bulkhead.		Urgent Action Required?

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Loca	Location Details		Material Details		nagement Details	Photographs	
Building ID:	Internal	Material Type:	Cement Based	Status:	Not Present (Not Tested)		
Elevation:	Level 1	Quantity:	15 - m2	Sample #:	Similar to 76821		
Position Installed:	Wall	Condition:	1/2 - 1/2 -	Sample Result:	No Asbestos Detected		
Primary Location:	Male bathroom	Friability:	Ē	Risk Rating:	-		
Secondary Location:	Cubicle partitions	Surface Treatment:	-	Recommendation:	-		
Comments:	Fibre cement cubicle par	tition walls.				Urgent Action Required?	

Locat	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Internal	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Level 1	Quantity:	-	Sample #:	-	
Position Installed:	Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Throughout	Friability:	-	Risk Rating:	-	Pendonunthan
Secondary Location:	-	Surface Treatment:		Recommendation:	-	
Comments:	Metal roofing and fra	mework above suspended ceilir	ng.			Urgent Action Required?

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Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Warehouse	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	2 - Items	Sample #:	-	
Position Installed:	Electrical Component Box	Condition:	-	Sample Result:	•	S Daw
Primary Location:	Southern elevation	Friability:	-	Risk Rating:	-	
Secondary Location:	DB4	Surface Treatment:	-	Recommendation:	-	
						Urgent Action Required?
Comments:	No access to internal compo	nents of electrical board	due to risk of electric sn	OCK.		No

Local	Location Details		Material Details		nagement Details	Photographs	
Building ID:	Warehouse	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)		
Elevation:	Ground Floor	Quantity:	2 - Items	Sample #:	-		
Position Installed:	Electrical Component Box	Condition:	-	Sample Result:			
Primary Location:	Southern elevation	Friability:	-	Risk Rating:	-	9000],
Secondary Location:	DB2	Surface Treatment:	-	Recommendation:	-		
G	No annual annual	nants of alastrical based	due to rick of electric she	ack			nt Action equired?
Comments:	No access to internal compo	nents of electrical board	due to risk of electric sno	JCK.		No	

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Locat	Location Details		rial Details	Results / Ma	nagement Details	Photographs	
Building ID:	Warehouse	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)		
Elevation:	Ground Floor	Quantity:	1 - Item	Sample #:	-		***
Position Installed:	Electrical Component Box	Condition:	-	Sample Result:			-
Primary Location:	Western elevation	Friability:		Risk Rating:	-		
Secondary Location:	DB3	Surface Treatment:	-	Recommendation:	-		
							Urgent Action Required?
Comments:	No access to internal compo	nents of electrical board	due to risk of electric sh	ock.			No

Locat	Location Details		Material Details		nagement Details	Photographs
Building ID:	Warehouse	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	CALIE !
Elevation:	Ground Floor	Quantity:		Sample #:		THE RESERVE OF THE PARTY OF THE
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Southwest	Friability:	-	Risk Rating:	-	THE RESERVE TO SERVE
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	ala se
Comments:	Concrete slab floor. Bricky	ork walls. Metal framewor	rk and roof sheeting.			Urgent Action Required?

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Locat	ion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Warehouse	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	7	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Northwest	Friability:	-	Risk Rating:	-	
Secondary Location:	-	Surface Treatment:	-	Recommendation:	•	
		research (Urgent Action Required?
Comments:	Concrete slab floor. Metal	sheeting to walls and roof.	Metal framework.			-

Locat	tion Details	Mate	rial Details	Results / Ma	nagement Details	Photographs
Building ID:	Warehouse	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Northeast	Friability:	-	Risk Rating:	•	
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	
						Urgent Action Required?
Comments:	Concrete slab floor. Metal	sheeting to walls and roof	. Metal framework.			-

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Locat	ion Details	Mate	rial Details	Results / Mai	nagement Details	Photographs
Building ID:	Warehouse	Material Type:	Other - Refer to Comments	Status:	Not Present (Not Tested)	
Elevation:	Ground Floor	Quantity:	-	Sample #:	-	
Position Installed:	Walls / Floor / Ceiling	Condition:	-	Sample Result:	-	
Primary Location:	Southeast	Friability:	-	Risk Rating:	-	
Secondary Location:	-	Surface Treatment:	-	Recommendation:	-	
						Urgent Action Required?
Comments:	Concrete slab floor. Bricky	vork walls. Metal framework	rk and roof sheeting.			



APPENDIX B - NATA ACCREDITED LABORATORY REPORT/S



Darwin Branch: Unit 12, 16 Charlton Court, Woolner NT 0820 Enquiries: 1800 628 433

www.octief.com.au

Asbestos Bulk Sample Analysis Report Certificate No NT1712111033

Client:

GF Morandini Earthworks Pty Ltd

JM & NC

Client Contact:

Frank Morandini

12

Telephone: Email:

0418 892 890

08/12/2017

08/12/2017

Project:

J7590

Identification Date:

of Samples Submitted:

11/12/2017

Site Location:

6 College Road, Berrimah

Issue Date:

Sampled By:

Sampling Date:

Date Received:

11/12/2017

Test Methodology: Polarized light microscopy examination including dispersion staining techniques for the presence of asbestos in accordance with the methodology outlined in the In-House Procedure QP-930-

001 which is based on Australian Standard (AS4964-2004)

Sample ID	Sample Location	Sample Description	Approximate Size or Weight	Asbestos Detected (Yes/No)	Fibre Types Detected
76810	External - Textured paint - White	Paint	30x20x1mm	No	NAD-NFD
76811	External - Southern elevation	Mastic	40x10x5mm	No	NAD-NFD
76812	External - Eastern elevation	Mastic	40x10x2mm	No	NAD-NFD
76813	External - Communications pit	Cementitious material	10x5x2mm	No	NAD-ORG-SMF
76814	Internal - Office #9 (Data room)	Vinyl sheeting	25x25x2mm	No	NAD-NFD
76815	Internal - Male bathroom - Ground level	Fibre cement sheeting	4x2x2mm	No	NAD-ORG
76816	Internal - Hallway expansion joint	Mastic	30x10x2mm	No	NAD-NFD

Fibre Types

Organic fibres detected Chrysotile (white asbestos) fibres detected ORG CHR

Amosite (brown / grey asbestos) fibres Synthetic mineral fibres detected SMF AMO detected Unidentified mineral fibres detected **UMF**

CRO Crocidolite (blue asbestos) fibres detected No Asbestos Detected NAD No fibres detected NFD

Notes: Hand-picked refers to small discrete amounts of asbestos distributed unevenly in a large body of non-asbestos material.

Detection limit (AS 4964) - 0.1 g/kg.

Due to their nature, confirmation using another independent analytical technique is recommended if no asbestos is detected in samples of vinyl tiles, bituminous materials, mastics, adhesives, paints, sealants, resins or ore

The results contained within this report relate only to the sample(s) submitted for analysis and OCTIEF accepts no responsibility for the collection, packaging and transportation of sample submitted by external parties. Sample descriptions, sizes and weights are approximate only.





Darwin Branch: Unit 12, 16 Charlton Court, Woolner NT 0820 Enquiries: 1800 628 433

www.octief.com.au

Asbestos Bulk Sample Analysis Report Certificate No NT1712111033

76817	Internal - Demountable -	Vinyl sheeting	25x25x2mm	No	NAD-SMF
70017	Ground level	Viriyi Sheeting	ZOXZOXZIIIII		
76818	Internal - Demountable - Level one - Top layer	Vinyl sheeting	30x20x2mm	No	NAD-SMF
76819	Internal - Demountable - Level one - Bottom layer	Vinyl sheeting	30x20x2mm	No	NAD-NFD
76820	Internal - Air conditioning vent - Ground level	Mastic	15x10x1mm	No	NAD-NFD
76821	Internal - Toilet dividers - Level one - Female bathroom	Fibre cement sheeting	2x2x2mm	No	NAD-ORG

Detection limit (AS 4964) – 0.1 g/kg
The NATA Accreditation does not cover the sampling performance

Approved Identifier:

Dianne Loffler

Report Approved By:

Fibre Types

Chrysotile (white asbestos) fibres detected ORG Organic fibres detected CHR Amosite (brown / grey asbestos) fibres Synthetic mineral fibres detected SMF AMO detected Unidentified mineral fibres detected **UMF** Crocidolite (blue asbestos) fibres detected CRO No Asbestos Detected NAD No fibres detected NFD

Notes: Hand-picked refers to small discrete amounts of asbestos distributed unevenly in a large body of non-asbestos material.

Detection limit (AS 4964) - 0.1 g/kg.

Due to their nature, confirmation using another independent analytical technique is recommended if no asbestos is detected in samples of vinyl tiles, bituminous materials, mastics, adhesives, paints, sealants, resins or ore.

The results contained within this report relate only to the sample(s) submitted for analysis and OCTIEF accepts no responsibility for the collection, packaging and transportation of sample submitted by external parties. Sample descriptions, sizes and weights are approximate only.





APPENDIX C - LIST OF ACRONYMS & GLOSSARY OF TERMS

Asbestos fibre types

AMO

Amosite (Brown Grey Asbestos) fibres

CHR

Chrysotile (White Asbestos) fibres

CRO

Crocidolite (Blue Asbestos) fibres

Asbestos product / material types

AD

Adhesive

CB

Cement Based

FD

Fire Door

GB

Galbestos galvanized sheet / asbestos compound fixed to one side

GS

Gasket

IB

Insulation Board

LA

Lagging

LDB

Low Density Board

LF

Loose Fill

MF

Mastic / Filler

MI

Millboard

MA

Machinery

OTHER

Refer to Comments

NAD

No Asbestos Detected

PB

Polymer bound i.e. vinyl tiles, electrical switchboards etc.

SC

Spray Coating

TX

Textile – woven sheet, rope, insulation etc.

VS

Vinyl Sheeting (incl. Backing)



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

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

Air Monitoring: Refers to airborne asbestos air sampling to assist in assessing exposure and the effectiveness of control measures. This includes exposure monitoring, clearance monitoring and control monitoring.

AMO: Abbreviation within asbestos register for amosite (Brown/Grey Asbestos) fibres.

Asbestos: Defined as the fibrous form of mineral silicates belonging to the serpentine and amphibole groups of rock-forming minerals, including actinolite, amosite/grunerite (brown or grey asbestos), anthohyllite, crocidolite (blue asbestos), chrysotile (white asbestos), tremolite, or any mixture containing one or more of these.

Asbestosis: A form of lung disease (pneumoconiosis) directly caused by inhaling asbestos fibres, causing a scarring (fibrosis) of the lung tissue which decreases the ability of the lungs to transfer oxygen to the blood. The latency period of asbestosis is generally between 15 and 25 years.

Asbestos Removalist: Means a competent person who performs asbestos removal work.

Asbestos Removal Work: Means the removal of asbestos or ACM.

Asbestos Work Area: 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: Means asbestos or ACM in which the asbestos fibres are bound into a firm matrix (i.e. cementations or resinous).

CHR: Abbreviation within asbestos register for chrysotile (White Asbestos) fibres.

CRO: Abbreviation within asbestos register for crocidolite (Blue Asbestos) fibres.

Clearance Inspection: Refers to an inspection carried out by a competent person, to verify that an asbestos work area 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 monitoring and/or settled dust sampling.

Clearance Monitoring: Air monitoring using static or positional samples to measure the level of airborne asbestos in an area following work on ACM. An area is cleared when the level of airborne asbestos fibres is measured as being below 0.01 fibres/mL.

Competent Person: Means a person who has acquired through training, qualification or experience the required knowledge, and skills to carry out a task.

Control Monitoring: Air monitoring using static or positional to measure the level of airborne asbestos fibres in an area during work on ACM. 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.

Friable Asbestos: Means asbestos or ACM which, when dry, is or may become crumbled, pulverised or reduced to powder by hand.

Condition: The physical state of the material in question.

Hazard: Refers to any matter, thing, process, or practice that may cause death, injury, illness or disease.

HEPA Vacuum Cleaner: Means a vacuum cleaner that is fitted with a High Efficiency Particulate Air (HEPA) Filter which complies with AS 4260-1997 High efficiency particulate air (HEPA) filters – classification, construction and performance. A domestic vacuum cleaner is not suitable for use with asbestos.

Lung Cancer: This disease been shown to be caused by all types of asbestos. The average latency period of the disease, from the first exposure to asbestos, ranges from 20 to 30 years. Lung cancer symptoms are rarely felt until the disease has developed to an advanced stage.

Malignant Mesothelioma: A cancer of the outer covering of the lung (the pleura) or the abdominal cavity (the peritoneum). It is usually fatal. Mesothelioma is caused by the inhalation of needle-like asbestos fibres deep into the lungs where they can damage mesothelial cells, potentially resulting in cancer. The latency period is generally between 35 and 40 years, but it may be longer, and the disease is very difficult to detect prior to the onset of illness. Mesothelioma was once rare, but its incidence is (continued) increasing throughout the industrial world as a result of past exposures to asbestos. Australia has the highest incidence rate in the world.

Masonry: Concrete work, brickwork or stone work.

NAD: No asbestos or ACM detected.

NATA: National Association of Testing Authorities, Australia.

Non-friable (Asbestos): Material, not in its natural state, that is bonded by a cement matrix, vinyl, resin or other binding material.

Occupational Hygienist: A qualified and/or experience person with tertiary qualification in a science or occupational health related field. To work within the asbestos industry, Occupational Hygienists should be NATA Accredited, and must be experience in the assessment and control of asbestos, and other chemical, physical or biological hazards in the workplace.

Person Conducting a Business or Undertaking (PCBU): Means a person conducting a business or undertaking alone or with others, whether or not for profit or gain. A PCBU can be a sole trader (for example a self-employed person), a partnership, company, unincorporated association or government department of public authority (including municipal council). An elected member of a municipal council acting in that capacity if not a PCBU.



Permit to Work: A formal written authority to operate a planned procedure, which is designed to protect personnel working in hazardous areas or activities. Authority for a safe system of work.

Person with Management or Control of a Workplace: means a PCBU with management or control over the workplace.

Personal Protective Equipment (PPE): Means equipment and clothing that is used or worn by an individual person to protect them against, or minimize their exposure to, workplace risks. It includes items such as facemasks and respirators, coveralls, goggles, helmets, gloves and footwear.

Respirable Asbestos Fibres: Asbestos fibres less than 3 μ m wide, more than 5 μ m long with a width ratio of more 3:1.

Respiratory Protective Equipment (RPE): Equipment used to protect personnel from inhalation of asbestos and other hazardous or radioactive materials.

Risk: The likelihood and consequence of a hazard causing harm to a person or the environment.

Workplace: Is any place where work is, or is to be, performed by a worker; or a person conducting a business or undertaking.





APPENDIX D - RECOMMENDED SAFE WORKING PROCEDURES

The following safe working practices are excerpts from the approved code of practice: How to Manage and Control Asbestos in the Workplace. These practices demonstrate how control measure can be used when asbestos or ACM is present in the workplace. Note this is not an exhaustive list of safe working practices.

- Safe work practice 1 Drilling for asbestos-containing material
- Safe work practice 2 Sealing, painting, coating and cleaning of asbestos-cement products
- Safe work practice 3 Cleaning leaf litter from gutters of asbestos cement roofs
- Safe work practice 4 Replace cabling in asbestos cement conduits or boxes
- Safe work practice 5 Working on electrical mounting boards (switchboards) containing asbestos
- Safe work practice 6 Inspection of asbestos friction materials





SAFE WORK PRACTICE 1 - DRILLING OF ASBESTOS-CONTAINING MATERIALS

The drilling of asbestos cement sheeting can release asbestos fibres into the atmosphere, so precautions must be taken to protect the drill operator and other persons from exposure to these fibres. A hand drill is preferred to a battery-powered drill because the quantity of fibres is drastically reduced if a hand drill is used.

drill, because the quar	ntity of fibres is drastically reduced if a hand drill is used.
Equipment that may be required on site prior to commencing the work (in addition to any equipment required to complete particular task)	 A non-powered hand drill or a low-speed battery-powered drill or drilling equipment. Battery-powered drills should be fitted with a local exhaust ventilation (LEV) dust control hood wherever possible. If an LEV dust control hood cannot be attached and other dust control methods – such as pastes and gels – are unsuitable then shadow vacuuming techniques should be used. Disposable cleaning rags. A bucket of water, or more as appropriate, and/or a misting spray bottle. Duct tape. Sealant. Spare PPE. A thickened substance such as wallpaper paste, shaving cream or hair gel. 200 μm plastic sheeting. A suitable asbestos waste container (e.g. 200 μm plastic bags or a drum, bin or skip lined with 200 μm plastic sheeting). Warning signs and/or barrier tape. An asbestos vacuum cleaner.
PPE	 A sturdy paper, foam or thin metal cup, or similar (for work on overhead surfaces only). Protective clothing and RPE (see AS1715, AS 1716: It is likely that a class P1 or P2 half face respirator will be adequate for this task, provided the recommended safe work procedure is
Preparing the asbestos work area Drilling vertical surfaces	 If the work is to be carried out at a height, appropriate precautions must be taken to prevent the risk of falls. Ensure appropriately marked asbestos waste disposal bags are available. Carry out the work with as few people present as possible. Segregate the asbestos work area to ensure unauthorised personnel are restricted from entry (e.g. close door and/or use warning signs and/or barrier tape at all entry points). The distance for segregation should be determined by a risk assessment. If drilling a roof from outside, segregate the area below. If access is available to the rear of the asbestos cement, segregate this area as well, as above. If possible, use plastic sheeting, secured with duct tape, to cover any surface within the asbestos work area that could become contaminated. Ensure there is adequate lighting. Avoid working in windy environments where asbestos fibres can be redistributed. If using a bucket of water, do not resoak used rags in the bucket, as this will contaminate the water. Instead, either fold the rag so a clean surface is exposed or use another rag. Tape both the point to be drilled and the exit point, if accessible, with a strong adhesive tape such as duct tape to prevent the edges crumbling. Cover the drill entry and exit points (if accessible) on the asbestos with a generous amount of thickened substance. Drill through the paste. Use damp rags to clean off the paste and debris from the wall and drill bit. Dispose of the rags as asbestos waste, as they will contain asbestos dust and fibres Seal the cut edges with sealant. If a cable is to be passed through, insert a sleeve to protect the inner edge of the hole.
Drilling overhead horizontal surfaces	 Mark the point to be passed through, insert a steeve to protect the inner edge of the note. Mark the point to be drilled. Drill a hole through the bottom of the cup. Fill or line the inside of the cup with shaving cream, gel or a similar thickened substance. Put the drill bit through the hole in the cup so that the cup encloses the drill bit, and make sure the drill bit extends beyond the lip of the cup. Align the drill bit with the marked point. Ensure the cup is firmly held against the surface to be drilled. Drill through the surface. Remove the drill bit from the cup, ensuring that the cup remains firmly against the surface. Remove the cup from the surface. Use damp rags to clean off the paste and debris from the drill bit. Dispose of the rags as asbestos waste, as they will contain asbestos dust and fibres. Seal the cut edges with sealant.



	• If a cable is to be passed through, insert a sleeve to protect the inner edge of the hole.
Decontaminating	Use damp rags to clean the equipment.
the asbestos work area and equipment	 Carefully roll or fold any plastic sheeting used to cover any surface within the asbestos work area, so as not to spill any dust or debris that has been collected.
	If necessary, use damp rags and/or an asbestos vacuum cleaner to clean any remaining visibly contaminated sections of the asbestos work area.
	• Place debris, used rags, plastic sheeting and other waste in the asbestos waste bags/container.
	Wet wipe the external surfaces of the asbestos waste bags/container to remove any adhering dust before they are removed from the asbestos work area.
Personal decontamination	If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth.
should be carried out in a designated	• While still wearing RPE, remove coveralls, turning them inside-out to entrap any remaining contamination and then place them into a labelled asbestos waste bag.
area	• Remove RPE. If non-disposable - inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container. If disposable - cleaning is not required but RPE
	should be placed in a labelled asbestos waste bag or waste container.
	Refer to the Code of Practice: How to Safely Remove Asbestos for more information.
Clearance	Visually inspect the asbestos work area to make sure it has been properly cleaned.
procedure	Clearance air monitoring is not normally required for this task.
	Dispose of all waste as asbestos waste.
	Refer to the Code of Practice: How to Safely Remove Ashestos for more information.





Job #: J7590 Date: 12/12/2017

SAFE WORK PRACTICE 2 - SEALING, PAINTING, COATING AND CLEANING OF ASBESTOS-CEMENT

These tasks should only to be carried out on asbestos that are in good condition. For this reason, the AC material should be thoroughly inspected before commencing the work. There is a risk to health if the surface of asbestos cement sheeting is disturbed (e.g. from hail storms and cyclones) or if the sheeting has deteriorated as a result of aggressive environmental factors such as pollution. If asbestos cement sheeting is so weathered that its surface is cracked or broken, the asbestos cement matrix may be eroded, increasing the likelihood that asbestos fibres will be released. If treatment of asbestos cement sheeting is considered essential, a method that does not disturb the matrix of the asbestos cement sheeting should be used. Under no circumstances should asbestos cement products be water blasted or dry sanded in preparation for

be used. Under no circ painting, coating or se	cumstances should asbestos cement products be water blasted or dry sanded in preparation for aling.
Equipment that may be required on site prior to commencing the work (in addition to any equipment required to complete particular task)	 Disposable cleaning rags. A bucket of water, or more as appropriate, and/or a misting spray bottle. Sealant. Spare PPE. A suitable asbestos waste container. Warning signs and/or barrier tape.
PPE	 Protective clothing and RPE (see AS1715, AS 1716: It is likely that a class P1 or P2 half face respirator will be adequate for this task, provided the recommended safe work procedure is followed. Where paint is to be applied, appropriate respiratory protection to control the paint vapours/mist must also be considered.
Preparing the asbestos work area	 If work is to be carried out at a height, precautions must be taken to prevent the risk of falls. Before starting, assess the asbestos cement for damage. Ensure appropriately marked asbestos waste disposal bags are available. Carry out the work with as few people present as possible. Segregate the asbestos work area to ensure unauthorised personnel are restricted from entry (e.g. close door and/or use warning signs and/or barrier tape at all entry points). The distance for segregation should be determined by a risk assessment. If working at a height, segregate the area below. If possible, use plastic sheeting, secured with duct tape, to cover any floor surface within the asbestos work area which could become contaminated. This will help to contain any runoff from wet sanding methods. Ensure there is adequate lighting. If using a bucket of water, do not resoak used rags in the bucket, as this will contaminate the water. Instead, either fold the rag so a clean surface is exposed or use another rag. Never use high-pressure water cleaning methods. Never prepare surfaces using dry sanding methods. Where sanding is required you should consider removing the asbestos and replacing it with a non-asbestos product. Wet sanding methods may be used to prepare the asbestos, provided precautions are taken to ensure all the runoff is captured, and filtered where possible. Wipe dusty surfaces with a damp cloth.
Painting and sealing Decontaminating the asbestos work area and equipment	 When using a spray brush, never use a high pressure spray to apply the paint. When using a roller, use it lightly to avoid abrasion or other damage. Use damp rags to clean the equipment. Where required, use damp rags and/or an asbestos vacuum cleaner to clean the asbestos work area.
	 Place debris, used rags, plastic sheeting and other waste in the asbestos waste bags/container. Wet wipe the external surfaces of the asbestos waste bags/container to remove any adhering dust before they are removed from the asbestos work area.
Personal decontamination should be carried out in a designated area	 If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth. While still wearing RPE, remove coveralls, turning them inside-out to entrap any remaining contamination and then place them into a labelled asbestos waste bag. Remove RPE. If non-disposable - inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container. If disposable - cleaning is not required but RPE should be placed in a labelled asbestos waste bag or waste container. Refer to the Code of Practice: How to Safely Remove Asbestos for more information.
Clearance procedure	 Visually inspect the asbestos work area to make sure it has been properly cleaned. Clearance air monitoring is not normally required for this task. Dispose of all waste as asbestos waste. Refer to the <i>Code of Practice: How to Safely Remove Asbestos</i> for more information.





SAFE WORK PRACE	CTICE 3 - CLEANING LEAF LITTER FROM GUTTERS OF ASBESTOS CEMENT
Equipment that may be required on site prior to commencing the work (in addition to any equipment required to complete particular task) PPE Preparing the asbestos work area	 A bucket of water, or more as appropriate, and detergent. A watering can or garden spray. A hand trowel or scoop. Disposable cleaning rags. A suitable asbestos waste container. Warning signs and/or barrier tape. An asbestos vacuum cleaner. Protective clothing and RPE (see AS1715, AS 1716): It is likely that a class P1 or P2 half face respirator will be adequate for this task, provided the recommended safe work procedure is followed. Since the work is to be carried out at a height, appropriate precautions must be taken to prevent the risk of falls. Ensure appropriately marked asbestos waste disposal containers are available.
	 Segregate the asbestos work area to ensure unauthorised personnel are restricted from entry (e.g. use warning signs and/or barrier tape at all entry points). The distance for segregation should be determined by a risk assessment. Segregate the area below. Avoid working in windy environments where asbestos fibres can be redistributed. If using a bucket of water, do not resoak used rags in the bucket, as this will contaminate the water. Instead, either fold the rag so a clean surface is exposed or use another rag.
Gutter cleaning	 Disconnect or re-route the downpipes to prevent any entry of contaminated water into the waste water system and ensure there is a suitable container to collect contaminated runoff. Contaminated water must be disposed of as asbestos waste. Mix the water and detergent. Using the watering can or garden spray, pour the water and detergent mixture into the gutter, but avoid over-wetting as this will create a slurry. Remove the debris using a scoop or trowel. Do not allow debris or slurry to enter the water system. Wet the debris again if dry material is uncovered. Place the removed debris straight into the asbestos waste container.
Decontaminating the asbestos work area and equipment	 Use damp rags to wipe down all equipment used. Use damp rags to wipe down the guttering. Where practicable, and if necessary, use an asbestos vacuum cleaner to vacuum the area below. Place debris, used rags and other waste in the asbestos waste container. Wet wipe the external surfaces of the asbestos waste container to remove any adhering dust before it is removed from the asbestos work area.
Personal decontamination should be carried out in a designated area	 If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth. While still wearing RPE, remove coveralls, turning them inside-out to entrap any remaining contamination and then place them into a labelled asbestos waste bag. Remove RPE. If non-disposable - inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container. If disposable - cleaning is not required but RPE should be placed in a labelled asbestos waste bag or waste container. Refer to the <i>Code of Practice: How to Safely Remove Asbestos</i> for more information.
Clearance procedure	 Visually inspect the asbestos work area to make sure it has been properly cleaned. Clearance air monitoring is not normally required for this task. Dispose of all waste as asbestos waste. Refer to the Code of Practice: How to Safely Remove Asbestos for more information.





	ICE 4 - REPLACE CABLING IN ASBESTOS CEMENT CONDUITS OR BOXES
Equipment that may be required on site	Disposable cleaning rags.
orior to commencing	A bucket of water, or more as appropriate, and/or a misting spray bottle.
he work (in addition	• 200 µm thick plastic sheeting.
o any equipment	Cable slipping compound.
equired to complete	Appropriately marked asbestos waste disposal bags.
particular task)	• Spare PPE.
	• Duct tape.
	Warning signs and/or barrier tape.
DDE	An asbestos vacuum cleaner. An asbestos vacuum cleaner. An asbestos vacuum cleaner. An asbestos vacuum cleaner.
PPE	Protective clothing and RPE (see AS1715, AS 1716): It is likely that a class P1 or P2 half face respirator will be adequate for this task, provided the recommended safe work procedure is followed.
Preparing the asbestos work area	If the work will be carried out in a confined space, appropriate precautions must be taken to prevent the risk of asphyxiation.
	Ensure appropriately marked asbestos waste disposal bags are available.
	Carry out the work with as few people present as possible.
	 Segregate the asbestos work area to ensure unauthorised personnel are restricted from entry (e.g. use warning signs and/or barrier tape at all entry points). The distance for segregation should be determined by a risk assessment.
	Use plastic sheeting, secured with duct tape, to cover any surface within the asbestos work area which could become contaminated.
	Place plastic sheeting below the conduits through which cable(s) are to be pulled, prior to pulling any cables.
	Ensure there is adequate lighting.
	Avoid working in windy environments where asbestos fibres can be redistributed.
	If using a bucket of water, do not resoak used rags in the bucket, as this will contaminate the water. Instead, either fold the rag so a clean surface is exposed or use another rag.
Replacement or installation of cables	Wet down the equipment and apply adequate cable slipping compound to the conduits/ducts throughout the process.
	Clean all ropes, rods or snakes used to pull cables after use. Cleaning should be undertaken close to the point(s) where the cables exit from the conduits/ducts.
	Ropes used for cable pulling should have a smooth surface that can easily be cleaned.
	Do not use metal stockings when pulling cables through asbestos cement conduits.
	Do not use compressed air darts for pulling cables through asbestos cement conduits/ducts.
Decontaminating the	Use damp rags to clean the equipment.
asbestos work area and equipment	 Wet wipe around the end of the conduit, sections of exposed cable and the pulling eye at the completion of the cable pulling operation.
	If the rope or cable pass through any rollers, these must also be wet wiped after use.
	Wet wipe the external surface of excess cable pulled through the conduit/duct, as close as possible to the exit point from the conduit, before it is removed from the work site.
	Carefully roll or fold any plastic sheeting used to cover any surface within the asbestos work area, so as not to spill any dust or debris that has been collected.
	If required, use damp rags or an asbestos vacuum cleaner to clean any remaining visibly contaminated sections of the asbestos work area.
	Place all debris, used rags, plastic sheeting and other waste in the asbestos waste bags/container.
	Wet wipe the external surfaces of the asbestos waste bags/container to remove any adhering dust before
	they are removed from the asbestos work area.
Personal decontamination	If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth.
should be carried out	While still wearing RPE, remove coveralls, turning them inside-out to entrap any remaining
in a designated area	contamination and then place them into a labelled asbestos waste bag.
	• Remove RPE. If non-disposable - inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container. If disposable - cleaning is not required but RPE should be placed in a
	labelled asbestos waste bag or waste container.
Clearence recording	Refer to the Code of Practice: How to Safely Remove Asbestos for more information.
Clearance procedure	Visually inspect the asbestos work area to make sure it has been properly cleaned. Cleaning the properly depend on the state of the state
	Clearance air monitoring is not normally required for this task. Provided the state of the
	Dispose of all waste as asbestos waste. Pefer to the Code of Practice: How to Safely Papeage Ashestos for more information.
	Refer to the Code of Practice: How to Safely Remove Asbestos for more information.





If the asbestos-containin	ICE 5 - WORKING ON ELECTRICAL MOUNTING BOARDS CONTAINING ASSESTOS g electrical mounting panel has to be removed for work behind the board, the procedures for removing electrical
meter boards outlined in	the Code of Practice: How to Safely Remove Asbestos should be followed. If drilling is required, the control
process should be consis	stent with the measures described in Safe Work Practice 1.
Equipment that may be required on site prior to commencing	A non-powered hand drill or a low-speed battery-powered drill or drilling equipment. Battery-powered drills should be fitted with a LEV dust control hood wherever possible. If a LEV dust control hood cannot be attached and other dust control methods, such as pastes and gels, are unsuitable then shadow
the work (in addition to equipment required	vacuuming techniques should be used. • Duct tape.
to complete particular	Warning signs and/or barrier tape.
task)	Disposable cleaning rags.
	A plastic bucket of water and/or a misting spray bottle.
	• Spare PPE.
	A suitable asbestos waste container.
	200 mm plastic sheeting. An asbestos vacuum cleaner.
PPE	
	will be adequate for this task, provided the recommended safe work procedure is followed.
Preparing the asbestos work area	Because the asbestos work area will involve electrical hazards, appropriate precautions must be taken to prevent the risk of electrocution.
	Ensure appropriately marked asbestos waste disposal bags are available.
	Carry out the work with as few people present as possible.
	Segregate the asbestos work area to ensure unauthorised personnel are restricted from entry (e.g. use warning signs and/or barrier tape at all entry points). The distance for segregation should be determined by a risk assessment.
	Use plastic sheeting, secured with duct tape, to cover any surface within the asbestos work area which could become contaminated.
	Ensure there is adequate lighting.
	Avoid working in windy environments where asbestos fibres can be redistributed.
	If using a bucket of water, do not resoak used rags in the bucket, as this will contaminate the water. Instead, either fold the rag so a clean surface is exposed or use another rag.
Work on electrical mounting panels	Providing the panel is not friable, maintenance and service work may include: replacement of asbestos containing equipment on the electrical panel with non-asbestos equipment operation of main switches and individual circuit devices pulling / inserting service and circuit fuses
	o bridging supplies at meter bases
	o using testing equipment
	o accessing the neutral link, and
	o installation of new components/equipment.
Decontaminating the asbestos work area	 Use damp rags to clean the equipment. Carefully roll or fold any plastic sheeting used to cover any surface within the asbestos work area, so as
and equipment	not to spill any dust or debris that has been collected.
	In areas where there is an electrical hazard, an asbestos vacuum cleaner should be used to remove any dust or debris from the mounting panel and other visibly contaminated sections of the asbestos work area.
	In areas where there is no electrical hazard, wet wiping with a damp rag can be used to remove minor amounts of dust or debris.
	 Place debris, used rags, plastic sheeting and other waste in the asbestos waste bags/container.
	Wet wipe the external surfaces of the asbestos waste bags/container to remove any adhering dust before they are removed from the asbestos work area.
Personal decontamination	If disposable coveralls are worn, clean the coveralls while still wearing RPE using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth.
should be carried out in a designated area	While still wearing RPE, remove coveralls, turning them inside-out to entrap any remaining contamination and then place them into a labelled asbestos waste bag.
	Remove RPE. If non-disposable - inspect it to ensure it is free from contamination, clean it with a wet rag and store in a clean container. If disposable - cleaning is not required but RPE should be placed in a labelled asbestos waste bag or waste container.
	Refer to the Code of Practice: How to Safely Remove Asbestos for more information.
Clearance procedure	Visually inspect the asbestos work area to make sure it has been properly cleaned.
	Clearance air monitoring is not normally required for this task.
	Dispose of all waste as asbestos waste.
	Refer to the Code of Practice: How to Safely Remove Asbestos for more information.





This guide may be used	when friction materials containing asbestos (e.g. brake assemblies or clutch housings) need to be inspected or ned. Compressed air must not be used to clean dust from a brake assembly.
Equipment that may	A misting spray bottle.
be required on site	• Duct tape.
prior to commencing	Warning signs and/or barrier tape.
he work (in addition	Disposable cleaning rags.
o equipment required	A bucket of water and detergent.
o complete particular	• Spare PPE.
ask)	A suitable asbestos waste container.
	A catch tray or similar container.
	An asbestos vacuum cleaner.
PPE	 Protective clothing and RPE (see AS1715, AS 1716): It is likely that a class P1 or P2 half face respirator will be adequate for this task, provided the recommended safe work procedure is followed.
Preparing the asbestos	Ensure appropriately marked asbestos waste disposal bags are available.
work area	Carry out the work with as few people present as possible.
	A risk assessment should determine whether to segregate the asbestos work area, but it may be necessary
	to ensure unauthorised personnel are restricted from entry (e.g. using barrier tape and/or warning signs).
	Use a suitable collection device below the location where the work will be carried out to collect any
	debris or runoff.
	 Ensure there is adequate lighting. Avoid working in windy environments where asbestos fibres can be redistributed.
	and the state of t
	Instead, either fold the rag so a clean surface is exposed or use another rag.
Inspection of asbestos	A misting spray bottle should be used to wet down any dust. If using spray equipment to wet the asbesto
friction materials	might disturb asbestos fibres, use alternative wetting agents, e.g. a water-miscible degreaser or a
	water/detergent mixture.
	The wet method should be used, but if this is not possible the dry method may then be used.
	Wet method:
	Use the misting spray bottle to wet down any visible dust. The standard land to the sta
	Use a damp rag to wipe down the wheel or automobile part before removal. Ensure the dust is kept wet
	to prevent atmospheric contamination.
	Use hand tools rather than power tools to reduce the generation of airborne fibres.
	 Partially open the housing and softly spray the inside with water using the misting spray bottle. Any spillage of dust, debris or water must be controlled (e.g. capturing any runoff in a container) and either filtered or disposed of as asbestos waste.
	Open the housing and clean all asbestos parts using a damp rag, ensuring all runoff water is caught in a
	suitable asbestos waste container. Dry method:
	Place a tray under the components to catch dust or debris spilling from the housing or components durin the inspection and dispose of any material as asbestos waste.
	Use an asbestos vacuum cleaner to remove asbestos fibres from the brakes and rims or other materials before carrying out the inspection.
Decontaminating the	Use damp rags to clean the equipment, including the dust collection tray.
asbestos work area and equipment	 If necessary, use damp rags or an asbestos vacuum cleaner to clean any remaining visibly contaminated sections of the asbestos work area.
	 Place debris, used rags and other waste in the asbestos waste bags/container.
	Wet wipe the external surfaces of the asbestos waste bags/container to remove any adhering dust before
	removing them from the asbestos work area.
Personal decontamination	If disposable coveralls are worn, clean the coveralls and RPE while still wearing them using a HEPA vacuum, damp rag or fine-water spray. RPE can be cleaned with a wet rag or cloth.
should be carried out	While still wearing RPE, remove coveralls, turning them inside-out to entrap any remaining
in a designated area	contamination and then place them into a labelled asbestos waste bag.
	Remove RPE. If non-disposable - inspect it to ensure it is free from contamination, clean it with a wet
	rag and store in a clean container. If disposable - cleaning is not required but RPE should be placed in a
	labelled asbestos waste bag or waste container
	Refer to the Code of Practice: How to Safely Remove Asbestos for more information.
Clearance procedure	Visually inspect the asbestos work area to make sure it has been properly cleaned.
	Clearance air monitoring is not normally required for this task.
	Dispose of all waste as asbestos waste.
	Refer to the Code of Practice: How to Safely Remove Asbestos for more information.



APPENDIX E – EXAMPLE PERMIT TO WORK

	PERMIT TO W	VORK
/ALID FROM	Date / / TO	Date / /
DESCRIPTION OF F	RESTRICTED WORK AREA:	
Reason for Access:		
Asbestos Manager	ment Plan and Asbestos Register	sited
Name: Time:	Signature: Date:	
Safe Work Method S	tatement (SWMS) Ref#:	
Job Safety Analysis	(JSA) Ref#:	
(Copies of SWMS &	JSA must be attached to this Permit)	
Warning Signs / Bar	iers Required:	
Special Conditions:		
PPE:		
accordance with to Codes of Practice instruction on Fire Name of PCBU:	the requirements of the Work Health a es, current asbestos management plar e evacuation and Safety procedures. Signature: Date: / /	tions and undertake to carry out all work in and Safety Act and Regulations 2011, approved and this permit to work. I have received is authorised according to the conditions of this
permit.	ol of management the workplace:	is duffered decorating to the contained of the
Time D	ate / /	
clean and tidy cond	Satisfactory Completion of work is aclition. ol of management of workplace:	knowledged. The workplace has been left in a





APPENDIX F – EXAMPLE WARNING SIGNS AND LABELS





ASBESTOS

CANCER AND LUNG DISEASE HAZARD

AUTHORISED PERSONNEL ONLY

RESPIRATORS AND **PROTECTIVE CLOTHING ARE REQUIRED IN** THIS AREA

WARNING

ASBESTOS CONTAINING MATERIAL

CANCER AND LUNG DISEASE HAZARD

DO NOT DISTURB WITHOUT PROPER TRAINING AND EQUIPMENT



CONTAINS ASBESTOS FIBRES

AVOID CREATING DUST

CANCER AND LUNG DISEASE HAZARD

WARNING

ASBESTOS CONTAINING MATERIAL EXISTING IN THIS BUILDING

CONSULT ASBESTOS REGISTER PRIOR TO COMMENCING WORK



APPENDIX G – SUBJECT SITE IMAGE

