Hazardous Materials Inspection

Prepared for:	Loreto Normanhurst
Prepared by:	Karim Nazemi Licensed Asbestos Assessor #001359 Trinitas Group
Site:	**4 Mount Pleasant Ave, Normanhurst NSW 2076**
Address:	4 Mount Pleasant Ave, Normanhurst NSW 2076
Date:	Monday, 7 December 2020

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Please note there are limitations associated with this report due to a range of factors, including, but not limited to the scope of works, survey methodology and inaccessible areas. To ensure its contextual integrity, the report must be read in its entirety and should not be copied, distributed or referred to in part only.

This report is not adequate for the purposes of refurbishment or demolition works. This report must be reviewed prior to the commencement of such works and a more intrusive risk assessment undertaken to identify asbestos-containing materials which may be disturbed during building demolition or refurbishment works.

Refer to the Statement of Limitations for further details. Refer to the Areas Not Accessed for further details.

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	Name	Karim Nazemi	Name	Denny Bolatti
2	Signature		Signature	
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Contents

Summary of Findings

The following table provides a summary of identified asbestos risks during the building:

Building Name	No. High Risk Asbestos Items	No. Medium Risk Asbestos Items	No. Low Risk Asbestos Items	Total Asbestos Items
Residential house	0	0	9	9
Shed	0	0	0	0
Garage	0	0	0	0
TOTAL	**0**	**0**	**9**	**9**

Areas Not Accessed

Area/Item	Not Accessed	Comments
Height restricted areas of site and ceiling where safe lifting platforms were not provided	All	
Inaccessible ceiling spaces	All	
Waterproof membranes	All	
Behind ceramic wall tiles	All	
Within electrical switchboard cupboard or backing	All	
Gaskets, mastics & sealants to pipework, ductwork, mechanical equipment & construction/expansion joints	All	
Within air conditioning re-heat boxes	All	
Under carpeted floor coverings	All	
Fire door cores	All	
Inside mechanical equipment	All	
Within internal walls partitioning	All	
Building facade fixing brackets	All	
Wall cavities	All	
Lift shaft and lift cabin fittings	N/A	
Inaccessible culverts and floor trenches or tunnels	All	
First floor	All	No accessible with no staircase

It is possible that asbestos-containing materials, which may be concealed within inaccessible areas/voids, may not have been located during the survey. It is noted that asbestos-containing material may be contained within or behind those areas identified in the above table. Caution should be exercised when accessing these areas, particularly in relation to potential disturbance of the building fabric or concealed spaces.

Scope of Works & Methodology

Scope

The scope of works for the project was as follows:

- Inspect representative and accessible areas of the site to identify the following asbestos containing material:
- Identify the likelihood of asbestos containing material in inaccessible areas
- Identify the types of asbestos containing material and their condition
- Assess the risks posed by the materials
- Compile an asbestos containing material register for the site
- Take photographs of suspected asbestos containing material
- Recommend control measures and actions necessary to manage any asbestos containing material related risks
- Collect samples of suspected asbestos-containing materials
- Undertake representative lead paint identification

Methodology

Asbestos

This component of the assessment was carried out in accordance with the guidelines documented in SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019). Samples of suspected asbestos- containing materials were collected during the survey and were analysed in a NATA-accredited laboratory for the presence of asbestos by Polarised Light Microscopy.

Synthetic Mineral Fibres (SMF)

This component of the assessment was carried out in accordance with the guidelines documented in the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. This report broadly identifies SMF materials found or suspected of being present during the survey based on a visual assessment.

Lead Paint

Representative painted surfaces were tested for the presence of lead paint. This method can detect lead in paint at concentrations of 0.5% and above, and may indicate lead in some paint films as low as 0.2%. The sampling program was representative of the various types of paints found within the site, concentrating on areas where lead based paints may have been used (eg. Exterior gloss paints, window and door architraves, skirting boards etc). The objective of lead paint identification in this survey is to highlight the presence of lead-based paints within the building, not to specifically identify every source of lead-based paint.

Polychlorinated Biphenyls (PCBs)

Where safely accessible, specifications of capacitors incorporated in light fittings and ceiling fans were noted and cross- referenced with the ANZECC Identification of PCB-containing Capacitors information booklet – 1997. Due to the inherent hazard in accessing electrical components, or other reasons such as height restrictions, some fittings may not have been able to be safely accessed. In these instances, comment is made on the likelihood of PCB-containing materials based upon the age and appearance of the fittings.

Ozone Depleting Substances (ODSs)

Representative items of air conditioning and chiller plant suspected of containing ozone-depleting substances (ODSs) were noted and cross referenced with known ozone-depleting gases published by the United Nations Environment Program.

Recommendations

These recommendations should be followed whenever any asbestos containing material is identified, irrespective of the level of risk.

Asbestos

In accordance with the WHS Regulations (2017) and SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019) we make the following recommendations:

- Record the following information in the site's asbestos register:
  - details of the type, condition, accessibility and location of all asbestos-containing material at the site;
  - measures taken control the asbestos-containing material;
  - details of any risk assessment carried out prior to these measures being taken;
  - records of any other work done on the asbestos-containing material;
  - records of any communication and/or consultation relation to asbestos-containing material at the site.
- Ensure a copy of the asbestos is on site, kept up to date and made readily accessible to the employees, contractors, subcontractors, persons removing asbestos-containing material, persons engaged to do work that may disturb asbestos- containing material and any other person who may be exposed to the asbestos-containing material.
- Review the asbestos register and risk assessments every 12 months, or earlier if:
  - a risk assessment indicates the need for reassessment;
  - there is evidence any risk assessment is no longer valid;
  - there is evidence that any control measures are ineffective;
  - changes to work practices and systems of work are introduced;
  - there is a change to the condition of the asbestos-containing material; or
  - any asbestos-containing material has been disturbed, removed, enclosed or sealed
  - A visual inspection should be undertaken as part of any review of asbestos register. Risk assessments should be undertaken in by a competent person, such as a asbestos containing material specialist.
- Develop and maintain an asbestos management plan that contains the following information:
  - the asbestos register;
  - details of any maintenance or service work on asbestos-containing material;
  - mechanisms for providing the employees, contractors, subcontractors, persons removing asbestos-containing material, persons engaged to do work that may disturb asbestos-containing material and any other person who may be exposed to the asbestos-containing material with the asbestos register;
  - decisions about management options (ie to maintain the asbestos-containing material or replace it) and reasons for those decisions;
  - a timetable for action, including priorities, dates for risk assessment review, etc;
  - monitoring arrangements;
  - responsibilities of all persons involved;
  - training arrangements;
  - procedure for reviewing and updating the asbestos management pan and asbestos register; and
  - safe work methods.
  - The asbestos management plan should be reviewed whenever the asbestos register is reviewed.
- Provide Asbestos Awareness training to staff and site personnel in accordance with the requirements SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019) Part 6.3.
- Consult with staff and health and safety representatives on the findings of this risk assessment and this report must be made available upon request, in accordance with the requirements of *SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019). Part 3.3.*
- Areas highlighted as areas of 'no access' should be presumed to contain asbestos containing material. Appropriate management planning should be implemented in order to control access to and maintenance

activities in these areas, until such a time as they can be inspected and the presence or absence of asbestos containing material can be confirmed.

- Ensure all asbestos-containing materials remaining in-situ are labelled appropriately to warn of the dangers of disturbing these materials, in accordance with the requirements of SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019) *Part 2.5.*

Synthetic Mineral Fibres (SMF)

- Synthetic Mineral Fibre (SMF) materials should be removed under controlled conditions prior to demolition /refurbishment works, in accordance with the requirements of the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)].

Lead Paint

- All identified lead-based paint systems should be maintained in good condition. Any works on lead-based paint systems likely to create dust, fumes or mist should be undertaken in accordance with AS 4361.2-1998 Guide to Lead Paint Management Part 2: Residential and Commercial Buildings.

Polychlorinated Biphenyls (PCBs)

- Capacitors and electrical components identified as containing Polychlorinated Biphenyls (PCBs) should be de-energised by a licensed electrician and removed under controlled conditions and disposed of in accordance with environmental protection guidelines prior to refurbishment or demolition works.

Ozone Depleting Substances (ODSs)

- Confirm that the contractor conducting works involving refrigerants holds a refrigerant trading authorisation with the Australian Refrigeration Council (ARC) and a refrigerant handling licence under the Ozone and Synthetic Gas Management Regulations 1995.
- Ensure that the air-conditioning contractor engaged to conduct maintenance and repair work involving refrigerants conducts the appropriate recovery and recycling of refrigerants.
- Ozone depleting refrigerants should be decanted by a suitably licensed contractor in accordance with the Australia & New Zealand Refrigerant Handling Code of Practice 2007, Part 1 – Self-Contained Low Charged Systems prior to the de- commissioning of the equipment.
- Ensure that future purchases of air-conditioning plant include refrigerants with non-ozone depleting potential.
- Prior to demolition/refurbishment works undertake a destructive hazardous materials survey of the premises as per the requirements of AS 2601: 2001 The Demolition of Structures, Part 1.6.1.
- It is imperative that demolition or refurbishment works cease pending further sampling if materials suspected of containing asbestos or unknown materials are encountered.

Asbestos Risk Assessment Factors

To assess the health risk posed by the presence of asbestos-containing material, all relevant factors must be considered. These factors include:

- Evidence of physical damage;
- Evidence of water damage;
- Proximity of air plenums and direct air stream;
- Friability of asbestos material;
- Requirement for access for building operations;
- Requirement for access for maintenance operations;
- Likelihood of disturbance of the asbestos material;
- Accessibility;
- Exposed surface areas; and
- Environmental conditions

These aspects are in turn judged upon: (i) potential for fibre generation, and, (ii) the potential for exposure.

Condition
The condition of the asbestos products identified during the survey is usually reported as either being good or poor.

- Good: - refers to asbestos materials, which have not been damaged or have not deteriorated.
- Fair: - refers to the asbestos material having suffered minor cracking or de-surfacing.
- Poor: - describes asbestos materials which have been damaged or their condition has deteriorated over time.

Friability
The friability of asbestos products describes the ease of which the material can be crumbled, and hence to release fibres.

- Friable asbestos: - (e.g. limpet beam insulation, pipe lagging) can be easily crumbled and is more hazardous than non-friable asbestos products.
- Non-Friable asbestos: - commonly known as bonded asbestos, is typically comprised of asbestos fibres tightly bound in a stable non-asbestos matrix. Examples of non-friable asbestos products include asbestos cement materials (sheeting, pipes etc), asbestos containing vinyl floor tiles and electrical backing boards.

Accessibility/Disturbance Potential
Asbestos products can be classified as having low, medium or high accessibility/disturbance potential.

- Low accessibility describes asbestos products that cannot be easily disturbed, such as materials in building voids, set ceilings, etc.
- Medium accessibility describes asbestos products that are visible but normal access is impeded, such as materials behind cladding material or are present in a ceiling space or are height restricted
- High accessibility asbestos products can be easily accessed or damaged due to their close proximity to personnel, e.g. asbestos cement walls or down pipes.

Risk Status
The risk factors described above are used to rank the health risk posed by the presence of asbestos-containing materials.

- A low risk ranking describes asbestos materials that pose a low health risk to personnel, employees and the general public providing they stay in a stable condition, for example asbestos materials that are in good condition and have low accessibility.
- A medium risk ranking applies to materials that pose an increased risk to people in the area.

- Asbestos materials that possess a high-risk ranking pose a high health risk to personnel or the public in the area of the material. Materials with a high-risk ranking will also possess a Priority 1 recommendation to manage the asbestos and reduce the risk.

The following priority rating system is adopted to assist in the programming and budgeting of the control of asbestos risk identified at the site.

Priority 1 (P1): Organise Remedial Works Immediately

An area has asbestos containing materials, which are either damaged or are being exposed to continual disturbance. Due to these conditions, there is an increased potential for exposure and/or transfer of the material to other parts with continued unrestricted use of this area. Representative asbestos fibre monitoring should be conducted in the building area during normal building operation where recommended. Prompt abatement of the asbestos hazard is recommended. As an interim, restrict access.

Priority 2 (P2): Organise Remedial Works Within 3 months

An area has asbestos containing materials with a potential for disturbance due to the following conditions:

- Material has been disturbed or damaged and its current condition, while not posing an immediate hazard, is unstable.
- The material is accessible and can when disturbed, present a short-term exposure risk.
- Demolition, renovation, refurbishment, maintenance, modification or new installations, involving air-handling system,

Appropriate abatement measures should be taken as soon as practicable. A negligible health risk exists if materials remain undisturbed under the control of an asbestos management plan.

Priority 3 (P3): No Remedial Works Required

An area has asbestos-containing materials, where:

- The condition of the friable asbestos material is now stable and has low potential of being disturbed or
- The material is currently in a non-friable condition, may have slight damage but do not present an exposure risk unless cut, drilled, sanded or otherwise abraded.

Negligible health risks are present if materials are left undisturbed under the control of an asbestos management plan. Defer any major action unless materials are to be disturbed as a result of maintenance, refurbishment or demolition operations.

Priority 4 (P4): No Remedial Works Required

The asbestos material is in a non-friable form and in good condition. It is most unlikely that the material can be disturbed under normal circumstances and can be safety subjected to normal traffic. Even if it were subjected to minor disturbance the material poses a negligible health risk. These materials should be left, and their condition monitored during subsequent reviews. As with any asbestos materials, these materials must be removed prior to renovations that may impact on the materials.

Asbestos Management Requirements

Introduction
Asbestos is the fibrous form of mineral silicates belonging to the serpentine and amphibole groups with the most common types being crocidolite (blue asbestos), amosite (brown or grey asbestos) and chrysotile (white asbestos).
Asbestos is a hazardous material that poses a risk to health by inhalation if the asbestos fibres become airborne and people are exposed to these airborne fibres. Exposure to asbestos fibres is known to cause mesothelioma, asbestosis and lung cancer.

Asbestos and asbestos-containing materials were used extensively in Australian buildings and structures, plant and equipment and in ships, trains and motor vehicles during the 1950s, 1960s and 1970s, and some uses, including some friction materials and gaskets, were only discontinued on 31 December 2003.

Asbestos materials in a bonded form do not present an immediate health risk if they remain undisturbed and in good condition. It is the inhalation of fibres from friable forms of asbestos, or dusts generated by disturbing bonded materials, that may lead to the risk of asbestos related disease.

Asbestos Management Plan (AMP)
An AMP (including an asbestos register) should be developed for the site as per Part 4.1 of SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019). See the Recommendation section of this report for details of what should be included in the AMP.

Updates to Register, AMP and Risk Assessments
The asbestos register and the AMP should be reviewed (via visual inspection by a competent person) and updated at least every 5 years for non-friable ACM and every 12 months for friable ACM where a risk assessment indicates the need for a reassessment or if any ACMs have been removed or updated as per Parts 3.2 and 4.2 of SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019).

Risk assessments should be reviewed regularly, particularly when there is evidence that the risk assessment is no longer valid, control measures are shown to be ineffective or there is a significant change planned for the workplace or work practices or procedures relevant to the risk assessment; or there is a change in ACM condition or ACMs have since been enclosed, encapsulated or removed.

Labelling
All confirmed or presumed ACMs (or their enclosures) should be labelled to identify the material as *asbestos-containing* or *presumed asbestos-containing* and to warn that the items should not be disturbed as per Part 2.5 of SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019).

Training
Staff and site personnel must be provided with *Asbestos Awareness* training in accordance with Part 6.3 of SafeWork NSW, Code of Practice for How to Manage and Control of Asbestos in Workplaces (2019).

Training should inform staff how to work safely alongside asbestos by instructing them of:
The health risks associated with asbestos.
Their roles and responsibilities under the AMP.
Procedures for managing asbestos on-site.
The correct use of control measures and safe work methods to minimise the risks from asbestos. Training records must be kept.

Refurbishment / Demolition Requirements
This audit is limited by the Scope of Works and Methodology outlined within this report.

Generally, a new audit or revised audit is required prior to any planned refurbishment, alteration, demotion or upgrade works that may disturb ACMs at the site in accordance with Australia Standard AS 2601: The Demolition of Structures

Removal of Asbestos Materials
If the asbestos management plan calls for the removal of asbestos, the Work Health and Safety Regulation 2017 (NSW) requires that this be done in accordance with *SafeWork NSW, Code of Practice: How to Safely Remove Asbestos (2019).*

Ensure that a risk assessment is performed by a competent person prior to the asbestos removal and that the asbestos removalist considers this risk assessment when developing their asbestos removal control plan.

Asbestos removal licences are required for non-friable and friable asbestos removal work. Friable asbestos removal work also requires a WorkCover permit.

Consultation and Communication related to Asbestos Removal

When asbestos-containing materials are to be removed from, there must be full consultation, information sharing and involvement by everyone in the workplace at each step of the asbestos-containing material removal process and records should be kept.

Provision of Information to the Asbestos Removalist

Before any removal work commences, the asbestos removalist must be provided with a copy of the asbestos register and work specifications for the asbestos-containing materials removal.

Air Monitoring

Air monitoring may need to be performed when asbestos-containing materials are being removed to ensure control measures are effective. Air monitoring is required for all indoor removals of friable asbestos-containing materials and for all outdoor removals of friable asbestos-containing materials where there might be a risk to other people.
The need for air monitoring should be determined by a competent person who is independent from the person responsible for the removal work.

If air monitoring is required, the competent person shall develop a documented air-monitoring program, which includes the requirements for clearance monitoring.

Asbestos removal must not commence until the air monitoring has commenced.

The results of air monitoring shall be provided to all relevant parties as soon as possible.

In accordance with Section 261 of the Work Health & Safety Regulations (2017), any air monitoring must be analysed in a NATA-Accredited laboratory in accordance with the Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC: 3003 (2005)].

Clearance to Reoccupy an Asbestos Work Area

Before clearance is granted for an asbestos work area to be re-occupied, there must be a thorough clearance inspection. The clearance inspection must be conducted by a competent person who is independent from the person responsible for the removal work.

Following the final clearance inspection, a clearance certificate must be issued by this competent person.
Any protective barriers between the asbestos work area and public areas must remain intact until completion of all asbestos removal work and successful completion of the clearance inspection.

Disposal of Asbestos Waste

The handling and storage of asbestos waste at a worksite is regulated solely by WorkCover NSW. The storage at other than worksites, transport and disposal of asbestos waste are regulated by the NSW Department of Environment, Climate Change and Water (DECCW).

At the asbestos removal site, asbestos waste must be collected and disposed of in an asbestos waste bag, a drum, a bin or asbestos waste skip. If the asbestos waste cannot be disposed of immediately, it should be stored in a solid waste drum, bin or skip, sealed, and secured at the completion of each day's work.

All asbestos waste must be removed from the workplace by a competent person. When transported, bonded asbestos must be securely packaged at all times and friable asbestos must be kept in sealed containers. All asbestos waste must be transported in a covered, leak-proof vehicle.

The asbestos waste may only be disposed of at a landfill site licensed by the DECCW to accept asbestos waste. This landfill site must receive prior notification by the asbestos remover of the intention to dispose of asbestos waste at this site. The landfill site must issue a certificate of disposal and the asbestos remover must provide the Facilities Manager with a copy of this certificate. It is the Facilities Manager's responsibility to ensure a copy of the certificate of disposal is placed within the relevant site's asbestos register.

Hazardous Materials Management Requirements

Synthetic Mineral Fibre (SMF)
Synthetic Mineral Fibre (SMF) is a man-made insulation material used extensively in industrial, commercial and residential sites as fire rating, reinforcement in construction materials and as acoustic and thermal insulators. Types of SMF materials include fibreglass, rockwool, ceramic fibres and continuous glass filaments.

There are two basic forms of Synthetic Mineral Fibre (SMF) insulation, bonded and un-bonded.

- Bonded SMF is where adhesives, binders or cements have been applied to the SMF before delivery and the SMF product has a specific shape.
- Un-bonded SMF has no adhesives, binders or cements and the SMF is loose material packed into a package.

Exposure to SMF can result in short-term skin, eye and respiratory irritation. SMF is also classified as a possible human carcinogen with a possible increase in risk in lung cancer from long-term exposure.

The use of and the safe removal of SMF materials should be conducted in accordance with the National Code of Practice for the safe use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)].

Polychlorinated Biphenyls (PCBs)

Polychlorinated Biphenyls (PCBs) are a toxic organochlorine used as insulating fluids in electrical equipment such as transformers, capacitors and fluorescent light ballasts that were largely banned from importation in Australia in the 1970s.

PCBs are listed as a probable human carcinogen and should be managed in accordance with the ANZECC Polychlorinated Biphenyls Management Plan, 2003. The handling and disposal of PCBs must be performed in accordance with applicable state and commonwealth environmental protection laws as scheduled PCB waste.

The following Personal Protective Equipment (PPE) should be worn when handling items containing or suspected to contain PCBs - nitrile gloves, eye protection, and disposable overalls. The PPE should be worn when removing capacitors from light fittings in case PCBs leak from the capacitor housing.

Lead Paint

Lead paint, as defined by the Australian Standard AS4361.2: 1998 Guide to Lead Paint Management; Part 2: Residential and Commercial Buildings, is that which contains in excess of 0.1% Lead by weight.

Lead carbonate (white lead) was once the main white pigment in paints for houses and public buildings. Paint with lead pigment was manufactured up until the late 1960's, and in 1969 the National Health and Medical Research Council's Uniform Paint Standard was amended to restrict lead content in domestic paint.

Lead in any form is toxic to humans when ingested or inhaled, with repeated transmission of particles cumulating in lead poisoning. Lead paint is assessed based on two potential routes of exposure. Firstly by the likelihood of inhalation or ingestion by people working in the vicinity of the paint and secondly by the condition of the paint. Paint that is flaking or in poor condition is more likely to be ingested than paint that is in a good, stable condition.

Any work relating to lead paint should be conducted in accordance with the National Code of Practice for the Control and Safe Use of Inorganic Lead at Work [NOHSC: 2015 (1994)].

Ozone Depleting Substances (ODSs)

Ozone Depleting Substances (ODSs) are those substances which deplete the earth's ozone layer and have been widely used in a range of commercial and industrial applications. All bulk imports of these substances (except HCFCs and methyl bromide) are banned into Australia under an international agreement known as the Montreal Protocol.

Hydrochlorofluorocarbons (HCFC) are refrigerants of low ozone depleting potential that are commonly used in air-conditioning plant, chillers and condensers. HCFCs are subject to Australian Government controls on import and manufacture as part of a phase out quota system in accordance with the Montreal Protocol and the

Commonwealth Ozone Protection & Synthetic Greenhouse Gas Management Act 1989. Imports of these substances will be fully banned by 2020 with only very limited supplies then available until 2030 to service remaining HCFC-dependant equipment.

Maintenance contractors working with these gases should have procedures in place to safely work with, store, handle and dispose of materials correctly.

Statement of Limitations

This report has been prepared in accordance with the agreement between the client and Trinitas Group. Within the limitations of the agreed upon scope of services, this work has been undertaken and performed in a professional manner, in accordance with generally accepted practices, using a degree of skill and care ordinarily exercised by members of its profession and consulting practice. No other warranty, expressed or implied, is made.

This report is solely for the use of the client and any reliance on this report by third parties shall be at such party's sole risk and may not contain sufficient information for purposes of other parties or for other uses. This report shall only be presented in full and may not be used to support any other objective than those set out in the report, except where written approval with comments are provided by Trinitas Group.

This report relates only to the identification of asbestos-containing materials used in the construction of the building and does not include the identification of dangerous goods or hazardous substances in the form of chemicals used, stored or manufactured within the building or plant.

'The following should also be noted:
While the survey has attempted to locate the asbestos-containing materials within the site it should be noted that the review was a visual inspection and a limited sampling program was conducted and/or the analysis results of the previous report were used. Representative samples of suspect asbestos materials were collected for analysis. Other asbestos materials of similar appearance are assumed to have a similar content.

Not all suspected asbestos materials were sampled. Only those asbestos materials that were physically accessible could be located and identified. Therefore, it is possible that asbestos materials, which may be concealed within inaccessible areas/voids, may not have been located during the audit. Such inaccessible areas fall into a number of categories.

- Locations behind locked doors.
- In set ceilings or wall cavities.
- Those areas accessible only by dismantling equipment or performing minor localised demolition works.
- Service shafts, ducts etc., concealed within the building structure.
- Energised services, gas, electrical, pressurised vessel and chemical lines
- Voids or internal areas of machinery, plant, equipment, air conditioning ducts etc.
- Totally inaccessible areas such as voids and cavities created and intimately concealed within the building structure. These voids are only accessible during major demolition works.
- Height restricted areas.
- Areas deemed unsafe or hazardous at time of audit

In addition to areas that were not accessible, the possible presence of asbestos containing materials may not have been assessed because it was not considered practicable as:

- It would require unnecessary dismantling of equipment; and/or
- It was considered disruptive to the normal operations of the building; and/or
- It may have caused unnecessary damage to equipment, furnishings or surfaces; and/or
- The asbestos containing material was not considered to represent a significant exposure risk; and/or
- The time taken to determine the presence of the asbestos containing material was considered prohibitive.

Only minor destructive auditing and sampling techniques were employed to gain access to those areas documented in the register. Consequently, without substantial demolition of the building, it is not possible to guarantee that every source of asbestos containing material has been detected.

During the course of normal site works care should be exercised when entering any previously inaccessible areas or areas mentioned above and it is imperative that work cease pending further sampling if materials suspected of containing asbestos or unknown materials are encountered. Therefore, during any refurbishment or demolition works, further investigations and assessment may be required should any suspect material be observed in previously inaccessible areas or areas not fully inspected previously, i.e. carpeted floors.

This report is not intended to be used for the purposes of tendering, programming of works, refurbishment works, or demolition works unless used in conjunction with a specification detailing the extent of the works. To ensure its contextual integrity, the report must be read in its entirety and should not be copied, distributed or referred to in part only

Hazardous Materials Register

Client Name:	Loreto Normanhurst	**Property Number:**	NA	**Survey Date:**	28/09/2020
Site Name:	4 Mount Pleasant Ave, Normanhurst NSW 2076	**Building Age:**	1930	**Inspected By:**	Karim Nazemi
Site Address:	4 Mount Pleasant Ave, Normanhurst NSW 2076	**Construction Type:**	Brick	**Building Size (m2):**	330
Building Name:	Residential house	**Roof Type:**	Tile	**No. Levels:**	2

Item	Location	Level	Room-Specific Location	Hazard Type	Item description	Sample Reference	Sample Status	Photo No	Extent	Condition	Friability	Disturbance Potential	Risk Rating	Current Label	Control Priority	Control Recommendation
1	Interior	Ground Floor	Division walls Next to front entrance - internal walls	Asbestos	Brick	NA	Negative									
2	Interior	Ground Floor	Bedrooms, corridor, living room, dining room and kitchen- flooring	Asbestos	Timber	NA	Negative									
3	Interior	Ground Floor	Bedrooms, living room and corridor - internal walls	Asbestos	Brick	NA	Negative									
4	Interior	Ground Floor	Living room, dining room and Room: Riverina & Dubbo - chimney	Asbestos	Internal insulation	Nil - encapsulated	Presumed Positive	200928-103437	3 units	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
5	Interior	Ground Floor	Room: Riverina and living room - power switch	Asbestos	Internal wire insulation	Nil - electric hazardous	Presumed Positive	200928-105727	2 units	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
6	Interior	Ground Floor	Door and window frame and walls skirt throughout	Lead in Paint	Lower colour paint system	01	Positive	200928-105942	Through out	Good						Lead Paint - Maintain in good condition. Remove or overpaint painted surfaces under controlled conditions prior to demolition or refurbishment.

Item	Location	Level	Room-Specific Location	Hazard Type	Item description	Sample Reference	Sample Status	Photo No	Extent	Condition	Friability	Disturbance Potential	Risk Rating	Current Label	Control Priority	Control Recommendation
7	Interior	Ground Floor	Southern end of room: Dubbo - infill panels below & above windows	Asbestos	FC sheeting	02	Positive	200928-113844	6	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
8	Interior	Ground Floor	Corridor - ceiling	Asbestos	FC sheeting	03	Positive	200928-112113	8	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
9	Interior	Ground Floor	Bedrooms, living room & dining room - ceilings	Asbestos	Plasterboard	07	Negative									
10	Interior	Ground Floor	Internal wardrobe in Room: Narrabri - paint faint	Lead in Paint	Lower colour paint system	04	Positive	200928-112636	2	Fair						Lead Paint - Maintain in good condition. Remove or overpaint painted surfaces under controlled conditions prior to demolition or refurbishment.
11	Interior	Ground Floor	GF ceiling cavity and 1st floor - dust and debris	Asbestos	Dust and debris	05	Negative									
12	Interior	Ground Floor	Southern balcony - infill panels and ceiling	Asbestos	FC sheeting	06	Positive	200928-114114	Through out	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
13	Interior	Ground Floor	Room: Narrabri - south and west walls	Asbestos	Plasterboard	Similar to 07	Presumed Negative									
14	Interior	Ground Floor	Paint on brick walls	Lead in Paint	Lower colour paint system	08	Positive	200928-114747	Through out	Good						Lead Paint - Maintain in good condition. Remove or overpaint painted surfaces under controlled conditions prior to demolition or refurbishment.
15	Interior	Ground Floor	Bathroom - internal walls and ceiling	Asbestos	Plasterboard	09	Negative									
16	Interior	Ground Floor	Kitchen - southern wall and ceiling	Asbestos	Plasterboard	Similar to 09	Presumed Negative									
17	Interior	Ground Floor	Kitchen - eastern, western and northern walls	Asbestos	Brick	NA	Negative									
18	Interior	Ground Floor	Room: Dubbo and living room - fireplace frames	Lead in Paint	Lower colour paint system	10	Positive	200928-115857		Good						Lead Paint - Maintain in good condition. Remove or overpaint painted surfaces under controlled conditions prior to demolition or refurbishment.
19	Exterior	Ground Floor	All elevation of the house -	Lead in Paint	Lower colour paint system	11	Positive	200928-120226		Good						Lead Paint - Maintain in good condition. Remove or overpaint painted surfaces under controlled conditions prior to demolition or refurbishment.
20	Exterior	Ground Floor	Rear entrance - eaves	Asbestos	FC sheeting	12	Positive	200928-120756	Through out	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
21	Exterior	Ground Floor	Bathroom - ceiling	Lead in Paint	Lower colour paint system	13	Positive	200928-121639		Good	Non-Friable	Low	Low	No	P4	Lead Paint - Maintain in good condition. Remove or overpaint

Item	Location	Level	Room-Specific Location	Hazard Type	Item description	Sample Reference	Sample Status	Photo No	Extent	Condition	Friability	Disturbance Potential	Risk Rating	Current Label	Control Priority	Control Recommendation
																painted surfaces under controlled conditions prior to demolition or refurbishment.
22	Exterior	Ground Floor	Bathroom - ceiling	Asbestos	FC sheeting	Similar to 12	Positive	200928-121743	8	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
23	Exterior	Ground Floor	Bathroom - internal walls	Lead in Paint	Lower colour paint system	14	Negative									
24	Exterior	1st Floor	Western elevation of the house - AC unit	ODS	Unknown label	NA	Presumed Positive	200928-125901	1 unit	Good						ODS - Maintain in good condition and ensure maintenance contractors appropriately handle and dispose of refrigerants
25	Exterior	Ground Floor	All elevation of the house - external walls	Lead in Paint	Lower colour paint system	15	Positive	200928-122524	12	Good						Lead Paint - Maintain in good condition. Remove or overpaint painted surfaces under controlled conditions prior to demolition or refurbishment.
26	Exterior	Ground Floor	Eastern and western elevation of the house - gable	Asbestos	FC sheeting	16	Positive	200928-123022	Through out	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP
27	Exterior	Ground Floor	All elevation of the house - window frame sealant	Asbestos	Mastic-like materi	17	Negative									
28	Exterior	Ground Floor	Northern elevation of the house - infill panels to window	Asbestos	FC sheeting	18	Negative									
29	Exterior	Ground Floor	Electrical meter board	Asbestos	backing board	Nil - energised	Presumed Positive	200928-124950	1	Good	Non-Friable	Low	Low	No	P4	P4 - No short term remediation works required. Review periodically and manage as part of an AMP

Client Name:	Loreto Normanhurst	**Property Number:**	NA	**Survey Date:**	28/09/2020
Site Name:	4 Mount Pleasant Ave, Normanhurst NSW 2076	**Building Age:**	N/A	**Inspected By:**	Karim Nazemi
Site Address:	4 Mount Pleasant Ave, Normanhurst NSW 2076	**Construction Type:**	Fibre Cement Sheeting	**Building Size (m2):**	6
Building Name:	Shed	**Roof Type:**	Metal	**No. Levels:**	5

Item	Location	Level	Room-Specific Location	Hazard Type	Item description	Sample Reference	Sample Status	Photo No	Extent	Condition	Friability	Disturbance Potential	Risk Rating	Current Label	Control Priority	Control Recommendation
1	Interior and Exterior	Ground Floor	All elevation of shed - walls	Asbestos	FC sheeting	19	Negative									

Client Name:	Loreto Normanhurst	**Property Number:**	N/A	**Survey Date:**	07/12/2020
Site Name:	4 Mount Pleasant Ave, Normanhurst NSW 2076	**Building Age:**	N/A	**Inspected By:**	Karim Nazemi
Site Address:	4 Mount Pleasant Ave, Normanhurst NSW 2076	**Construction Type:**	Brick	**Building Size (m2):**	80
Building Name:	Garage	**Roof Type:**	Metal	**No. Levels:**	1

Item	Location	Level	Room-Specific Location	Hazard Type	Item description	Sample Reference	Sample Status	Photo No	Extent	Condition	Friability	Disturbance Potential	Risk Rating	Current Label	Control Priority	Control Recommendation
1	Interior	Ground Floor	Garage, single tube fluorescent light	PCB	Capacitor	NA	Presumed Positive	201207-103626	1 unit	Good						PCB - Approach with caution during maintenance works. Remove and dispose of appropriately prior to refurbishment and demolition works
2	Interior	Ground Floor	Garage, single tube fluorescent light	PCB	Capacitor	NA	Presumed Positive	201207-102820	1 unit	Good						PCB - Approach with caution during maintenance works. Remove and dispose of appropriately prior to refurbishment and demolition works
3	Interior	Ground Floor	Garage, expansion joints	Asbestos	Bitumenous material	20	Negative									

Positive Photos

Photo No: 200928-103437
Result: Asbestos - Presumed Positive
Location-Level: Interior - Ground Floor
Room-Location: Living room, dining room and Room: Riverina & Dubbo - chimney
Feature-Material: Internal insulation

Photo No: 200928-105727
Result: Asbestos - Presumed Positive
Location-Level: Interior - Ground Floor
Room-Location: Room: Riverina and living room - power switch
Feature-Material: Internal wire insulation

Photo No: 200928-105942
Result: Lead in Paint - Positive
Location-Level: Interior - Ground Floor
Room-Location: Door and window frame and walls skirt throughout
Feature-Material: Lower colour paint system

Photo No: 200928-113844
Result: Asbestos - Positive
Location-Level: Interior - Ground Floor
Room-Location: Southern end of room: Dubbo - infill panels below & above windows
Feature-Material: FC sheeting

Photo No: 200928-112113
Result: Asbestos - Positive
Location-Level: Interior - Ground Floor
Room-Location: Corridor - ceiling
Feature-Material: FC sheeting

Photo No: 200928-112636
Result: Lead in Paint - Positive
Location-Level: Interior - Ground Floor
Room-Location: Internal wardrobe in Room: Narrabri - paint faint
Feature-Material: Lower colour paint system

Photo No: 200928-114114
Result: Asbestos - Positive
Location-Level: Interior - Ground Floor
Room-Location: Southern balcony - infill panels and ceiling
Feature-Material: FC sheeting

Photo No: 200928-114747
Result: Lead in Paint - Positive
Location-Level: Interior - Ground Floor
Room-Location: Paint on brick walls
Feature-Material: Lower colour paint system

Photo No: 200928-115857
Result: Lead in Paint - Positive
Location-Level: Interior - Ground Floor
Room-Location: Room: Dubbo and living room - fireplace frames
Feature-Material: Lower colour paint system

Photo No: 200928-120226
Result: Lead in Paint - Positive
Location-Level: Exterior - Ground Floor
Room-Location: All elevation of the house -
Feature-Material: Lower colour paint system

Photo No: 200928-120756
Result: Asbestos - Positive
Location-Level: Exterior - Ground Floor
Room-Location: Rear entrance - eaves
Feature-Material: FC sheeting

Photo No: 200928-121639
Result: Lead in Paint - Positive
Location-Level: Exterior - Ground Floor
Room-Location: Bathroom - ceiling
Feature-Material: Lower colour paint system

Photo No: 200928-121743
Result: Asbestos - Positive
Location-Level: Exterior - Ground Floor
Room-Location: Bathroom - ceiling
Feature-Material: FC sheeting

Photo No: 200928-125901
Result: ODS - Presumed Positive
Location-Level: Exterior - 1st Floor
Room-Location: Western elevation of the house - AC unit
Feature-Material: Unknown label

Photo No: 200928-122524
Result: Lead in Paint - Positive
Location-Level: Exterior - Ground Floor
Room-Location: All elevation of the house - external walls
Feature-Material: Lower colour paint system

Photo No: 200928-123022
Result: Asbestos - Positive
Location-Level: Exterior - Ground Floor
Room-Location: Eastern and western elevation of the house - gable
Feature-Material: FC sheeting

Photo No: 200928-124950
Result: Asbestos - Presumed Positive
Location-Level: Exterior - Ground Floor
Room-Location: Electrical meter board
Feature-Material: backing board

Photo No: 201207-103626
Result: PCB - Presumed Positive
Location-Level: Interior - Ground Floor
Room-Location: Garage, single tube fluorescent light
Feature-Material: Capacitor

Photo No: 201207-102820
Result: PCB - Presumed Positive
Location-Level: Interior - Ground Floor
Room-Location: Garage, single tube fluorescent light
Feature-Material: Capacitor

Negative Photos

Photo No: 200928-102642
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Division walls Next to front entrance - internal walls
Feature-Material: Brick

Photo No: 200928-104125
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Bedrooms, corridor, living room, dining room and kitchen- flooring
Feature-Material: Timber

Photo No: 200928-104435
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Bedrooms, living room and corridor - internal walls
Feature-Material: Brick

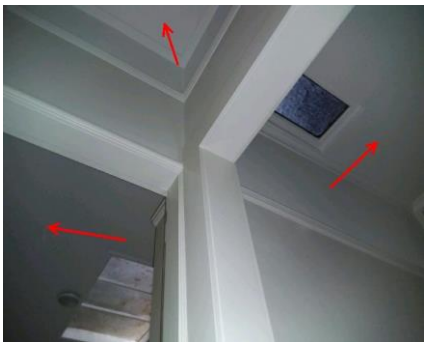

Photo No: 200928-112521
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Bedrooms, living room & dining room - ceilings
Feature-Material: Plasterboard

Photo No: 200928-112812
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: GF ceiling cavity and 1st floor - dust and debris
Feature-Material: Dust and debris

Photo No: 200928-114301
Result: Asbestos - Presumed Negative
Location-Level: Interior - Ground Floor
Room-Location: Room: Narrabri - south and west walls
Feature-Material: Plasterboard

Photo No: 200928-114932
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Bathroom - internal walls and ceiling
Feature-Material: Plasterboard

Photo No: 200928-115150
Result: Asbestos - Presumed Negative
Location-Level: Interior - Ground Floor
Room-Location: Kitchen - southern wall and ceiling
Feature-Material: Plasterboard

Photo No: 200928-115234
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Kitchen - eastern, western and northern walls
Feature-Material: Brick

Photo No: 200928-121902
Result: Lead in Paint - Negative
Location-Level: Exterior - Ground Floor
Room-Location: Bathroom - internal walls
Feature-Material: Lower colour paint system

Photo No: 200928-123512
Result: Asbestos - Negative
Location-Level: Exterior - Ground Floor
Room-Location: All elevation of the house - window frame sealant
Feature-Material: Mastic-like materi

Photo No: 200928-123914
Result: Asbestos - Negative
Location-Level: Exterior - Ground Floor
Room-Location: Northern elevation of the house - infill panels to window
Feature-Material: FC sheeting

Photo No: 200928-124326
Result: Asbestos - Negative
Location-Level: Interior and Exterior - Ground Floor
Room-Location: All elevation of shed - walls
Feature-Material: FC sheeting

Photo No: 201207-103132
Result: Asbestos - Negative
Location-Level: Interior - Ground Floor
Room-Location: Garage, expansion joints
Feature-Material: Bitumenous material

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How to Contact Us

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Email	admin@trinitasgroup.com.au
Address	Level 3 Hunter Street, Parramatta NSW 2150
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Trinitas Group Pty Ltd
ABN 12 161 759 708

Certificate of Analysis

eurofins | Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Trinitas Group Pty Ltd
Level 3, 24 Hunter Street
Parramatta
NSW 2150

Attention:	- RESULTS/SRAs
Report	761899-AID
Project Name	4 MOUNT PLEASANT AVE NORMANHURST NSW 2076
Received Date	Dec 07, 2020
Date Reported	Dec 08, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name 4 MOUNT PLEASANT AVE NORMANHURST NSW 2076
Project ID
Date Sampled Dec 07, 2020
Report 761899-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
20 - BITUMENOUS MATERIAL	20-De13993	Dec 07, 2020	Approximate Sample 1g / 10x10x3mm Sample consisted of: Black bituminous soft fibrous material	No asbestos detected. Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Dec 07, 2020	Indefinite

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IANZ # 1290

Company Name:	Trinitas Group Pty Ltd	**Order No.:**	
Address:	Level 3, 24 Hunter Street Parramatta NSW 2150	**Report #:**	761899
		Phone:	02 8810 4445
		Fax:	02 8016 0875
Project Name:	4 MOUNT PLEASANT AVE NORMANHURST NSW 2076		

Received:	Dec 7, 2020 12:02 PM	
Due:	Dec 8, 2020	
Priority:	1 Day	
Contact Name:	- RESULTS/SRAs	

Eurofins Analytical Services Manager : Alena Bounkeua

Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	20 - BITUMENOUS MATERIAL	Dec 07, 2020		Building Materials	S20-De13993	X
Test Counts						1

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Certificate of Analysis

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Trinitas Group Pty Ltd
Level 3, 24 Hunter Street
Parramatta
NSW 2150

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention:	- RESULTS/SRAs
Report	746871-AID
Project Name	4 MOUNT PLEASANT AVE NORMANHURST NSW 2076
Received Date	Sep 28, 2020
Date Reported	Oct 07, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name 4 MOUNT PLEASANT AVE NORMANHURST NSW 2076
Project ID
Date Sampled Sep 28, 2020
Report 746871-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
02 - FC SHEETING	20-Se47327	Sep 28, 2020	Approximate Sample <1g / 10x8x3mm Sample consisted of: a: Grey fibre cement material b: White paint material	Chrysotile asbestos detected (a). No asbestos detected (b).
03 - FC SHEETING	20-Se47328	Sep 28, 2020	Approximate Sample <1g / 15x10x3mm Sample consisted of: a: Grey fibre cement material b: White paint material	Chrysotile and amosite asbestos detected (a). No asbestos detected (b).
05 - DUST AND DEBRIS	20-Se47330	Sep 28, 2020	Approximate Sample <1g / 20x15x3mm Sample consisted of: Brown dust particles, fragments of brick, cement, bituminous material, soft fibrous material, wood residue, organic debris and sand	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
06 - FC SHEETING	20-Se47331	Sep 28, 2020	Approximate Sample <1g / 10x7x2mm Sample consisted of: a: Grey fibre cement material b: Green / white paint	Chrysotile and crocidolite asbestos detected (a). No asbestos detected (b).
07 - PLASTERBOARD	20-Se47332	Sep 28, 2020	Approximate Sample <1g / 15x10x3mm Sample consisted of: White plaster material with brown fibrous layer and paint	No asbestos detected. Organic fibre detected. No trace asbestos detected.
09 - PLASTERBOARD	20-Se47334	Sep 28, 2020	Approximate Sample <1g / 10x7x3mm Sample consisted of: White plaster with beige paint	No asbestos detected. No trace asbestos detected.
12 - FC SHEETING	20-Se47337	Sep 28, 2020	Approximate Sample <1g / 15x10x3mm Sample consisted of: a: Grey fibre cement material b: Green paint material	Chrysotile asbestos detected (a). No asbestos detected (b).
16 - FC SHEETING	20-Se47341	Sep 28, 2020	Approximate Sample <1g / 10x7x3mm Sample consisted of: a: Grey fibre cement material b: Beige paint	Chrysotile asbestos detected (a). No asbestos detected (b).

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
17 - MASTIC LIKE MATERIAL	20-Se47342	Sep 28, 2020	Approximate Sample <1g / 15x10x4mm Sample consisted of: Yellow mastic material with beige paint	No asbestos detected. No trace asbestos detected.
18 - FC SHEETING	20-Se47343	Sep 28, 2020	Approximate Sample <1g / 10x4x1mm Sample consisted of: Brown compressed fibrous material with beige paint	No asbestos detected. Organic fibre detected. No trace asbestos detected.
19 - FC SHEETING	20-Se47344	Sep 28, 2020	Approximate Sample <1g / 10x10x3mm Sample consisted of: Brown fibre plaster cement material	No asbestos detected. Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Sep 28, 2020	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Sep 28, 2020	Indefinite

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Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150

Project Name: 4 MOUNT PLEASANT AVE NORMANHURST NSW 2076

Order No.:
Report #: 746871
Phone: 02 8810 4445
Fax: 02 8016 0875

Received: Sep 28, 2020 6:48 PM
Due: Oct 6, 2020
Priority: 5 Day
Contact Name: - RESULTS/SRAs

Eurofins Analytical Services Manager : Alena Bounkeua

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	01 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47326			X
2	02 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47327		X	
3	03 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47328		X	
4	04 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47329			X

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Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
5	05 - DUST AND DEBRIS	Sep 28, 2020		Dust	S20-Se47330	X		
6	06 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47331		X	
7	07 - PLASTERBOARD	Sep 28, 2020		Building Materials	S20-Se47332		X	
8	08 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47333			X
9	09 - PLASTERBOARD	Sep 28, 2020		Building Materials	S20-Se47334		X	

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Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
10	10 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47335			X
11	11 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47336			X
12	12 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47337		X	
13	13 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47338			X
14	14 - LOWER	Sep 28, 2020		Paint	S20-Se47339			X

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Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
	COLOUR PAINT SYSTEM							
15	15 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47340			X
16	16 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47341		X	
17	17 - MASTIC LIKE MATERIAL	Sep 28, 2020		Building Materials	S20-Se47342		X	
18	18 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47343		X	

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Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
19	19 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47344		X	
Test Counts						1	10	8

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Authorised by:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Trinitas Group Pty Ltd
Level 3, 24 Hunter Street
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NSW 2150

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **- RESULTS/SRAs**

Report **746871-S**
Project name 4 MOUNT PLEASANT AVE NORMANHURST NSW 2076
Received Date Sep 28, 2020

Client Sample ID			**01 - LOWER COLOUR PAINT SYSTEM**	**04 - LOWER COLOUR PAINT SYSTEM**	**08 - LOWER COLOUR PAINT SYSTEM**	**10 - LOWER COLOUR PAINT SYSTEM**
Sample Matrix			**Paint**	**Paint**	**Paint**	**Paint**
Eurofins Sample No.			**S20-Se47326**	**S20-Se47329**	**S20-Se47333**	**S20-Se47335**
Date Sampled			**Sep 28, 2020**	**Sep 28, 2020**	**Sep 28, 2020**	**Sep 28, 2020**
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	1.2	0.13	0.12	0.55

Client Sample ID			**11 - LOWER COLOUR PAINT SYSTEM**	**13 - LOWER COLOUR PAINT SYSTEM**	**14 - LOWER COLOUR PAINT SYSTEM**	**15 - LOWER COLOUR PAINT SYSTEM**
Sample Matrix			**Paint**	**Paint**	**Paint**	**Paint**
Eurofins Sample No.			**S20-Se47336**	**S20-Se47338**	**S20-Se47339**	**S20-Se47340**
Date Sampled			**Sep 28, 2020**	**Sep 28, 2020**	**Sep 28, 2020**	**Sep 28, 2020**
Test/Reference	LOR	Unit				
Lead (% w/w)	0.01	%	0.14	0.19	0.02	0.16

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Lead (% w/w)	Sydney	Oct 06, 2020	6 Months

- Method: LTM-MET-3040 Metals in Waters Soils & Sediments by ICP-MS

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Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	01 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47326			X
2	02 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47327		X	
3	03 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47328		X	
4	04 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47329			X

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Mayfield Laboratory								
External Laboratory								
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6	06 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47331		X	
7	07 - PLASTERBOARD	Sep 28, 2020		Building Materials	S20-Se47332		X	
8	08 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47333			X
9	09 - PLASTERBOARD	Sep 28, 2020		Building Materials	S20-Se47334		X	

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Brisbane Laboratory - NATA Site # 20794								
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Mayfield Laboratory								
External Laboratory								
10	10 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47335			X
11	11 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47336			X
12	12 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47337		X	
13	13 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47338			X
14	14 - LOWER	Sep 28, 2020		Paint	S20-Se47339			X

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Company Name: Trinitas Group Pty Ltd
Address: Level 3, 24 Hunter Street
Parramatta
NSW 2150

Project Name: 4 MOUNT PLEASANT AVE NORMANHURST NSW 2076

Order No.:
Report #: 746871
Phone: 02 8810 4445
Fax: 02 8016 0875

Received: Sep 28, 2020 6:48 PM
Due: Oct 6, 2020
Priority: 5 Day
Contact Name: - RESULTS/SRAs

Eurofins Analytical Services Manager : Alena Bounkeua

Sample Detail						Asbestos - AS4964	Asbestos Absence /Presence	Lead (% w/w)
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
	COLOUR PAINT SYSTEM							
15	15 - LOWER COLOUR PAINT SYSTEM	Sep 28, 2020		Paint	S20-Se47340			X
16	16 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47341		X	
17	17 - MASTIC LIKE MATERIAL	Sep 28, 2020		Building Materials	S20-Se47342		X	
18	18 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47343		X	

eurofins | Environment Testing

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NATA # 1261 Site # 18217

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Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
19	19 - FC SHEETING	Sep 28, 2020		Building Materials	S20-Se47344		X	
Test Counts						1	10	8

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Alena Bounkeua	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Metal (NSW)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)

Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.