25 November 2022

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Darebin City Council
274 Gower Street, Preston Victoria 3072

Attention: Daniel DeSimone

Dear Daniel,

Letter of Advice
Melbourne Innovation Centre
2 Wingrove Street, Alphington Victoria 3078

1 Introduction

SLR Consulting Australia Pty Ltd (SLR) was requested by Daniel DeSimone of Darebin City Council to conduct sampling of surface dusts for asbestos content, and to undertake background air monitoring during sampling at Building 2A, 2 Wingrove Street, Alphington Victoria 3078 to ascertain extent of potential Asbestos Containing Dust (ACD) and to determine the extent of removal works required. The assessment was conducted on 23 November 2022 by James Bracken/Krishna Kadali from SLR.

The property located at currently 2 Wingrove Street, Alphington Victoria 3078 has a conforming Asbestos Register under the Work Health and Safety Regulation (2011).

Figure 1 Site Location

Image Taken from Nearmap 2022

2 Methodologies

The asbestos dust sampling was undertaken considering a risk management approach, in accordance with best practice, State Legislation and Safe Work Australia NOHSC Guidance. The survey was conducted in a manner which conforms with the *Occupational Health and Safety Regulations 2017*.

Control airborne fibre monitoring was conducted in accordance with Test Method NOHSC: 3003(2005) and SLR in-house technical procedures.

2.1 Asbestos Containing Dust (ACD)

Samples collection was performed by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas may contain asbestos materials may also be made and stated within the report.

This letter of advice summarises the visual inspection with sampling/analysis of materials undertaken by a trained and experienced surveyor. Materials are assumed to contain asbestos where laboratory analysis has confirmed the presence of asbestos in a visually similar material.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with Guidelines, relevant Statutory Regulations, Codes of Practice and SLR in-house Work Instructions and procedures. Samples were submitted to a NATA certified laboratory for confirmation analysis by stereo microscope and polarised light microscopy (PLM) with dispersion staining techniques.

Notably, with some asbestos containing bulk material it can be very difficult, or impossible, to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials. Some materials, such as vinyl tiles, may require further analysis via X-ray diffraction or Scanning Electron Microscopy.

3 Results

SLR obtained a total of 43 dust samples. Refer to **Table 1** for sample locations and results. Refer to **Appendix A** for Certificate of Analysis and **Appendix B** for Airborne Asbestos Monitoring Report . Photographic evidence can be found within **Appendix C**.

Table 1 Sample Locations and Results

Sample No.	Sample Location	Sample Description (including Weight/Size)	Analysis Results
11-873	Building 2A – North Wall – Left (at 1 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-874	Building 2A – North Wall – Centre (at 1 meter height)	Approximate Sample 5g Sample consisted of: Dust	No Asbestos Detected
11-875	Building 2A – North Wall – Right (at 1 meter height)	Approximate Sample 1g Sample consisted of: Dust	No Asbestos Detected
11-876	Building 2A – North Wall – Left (at 2 meter height)	Approximate Sample 3g Sample consisted of: Dust	No Asbestos Detected
11-877	Building 2A – North Wall – Centre (at 2 meter height)	Approximate Sample 3g Sample consisted of: Dust	No Asbestos Detected

Sample No.	Sample Location	Sample Description (including Weight/Size)	Analysis Results
11-878	Building 2A – North Wall – Right (at 2 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-879	Building 2A – North Wall – Left (at 3 meter height)	Approximate Sample <1g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-880	Building 2A – North Wall – Right (at 3 meter height)	Approximate Sample <1g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-881	Building 2A – East Wall – Shelf – Left (at 1 meter height)	Approximate Sample <1g Sample consisted of: Dust	No Asbestos Detected
11-882	Building 2A – East Wall – Right (at 1 meter height)	Approximate Sample <1g Sample consisted of: Dust	No Asbestos Detected
11-883	Building 2A – East Wall – Shelf (at 3 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-884	Building 2A – East Wall – Left (at 4 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-885	Building 2A – East Wall – Shelf - Centre (at 3 meter height)	Approximate Sample 2g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 1 x 1mm. Organic fibre detected. Synthetic mineral fibre detected. No trace asbestos detected.
11-886	Building 2A – East Wall – Centre (at 4 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-887	Building 2A – South Wall – Centre (at 1 meter height)	Approximate Sample 3g Sample consisted of: Dust	No Asbestos Detected
11-888	Building 2A – South Wall – Right (at 1 meter height)	Approximate Sample 3g Sample consisted of: Dust	No Asbestos Detected
11-889	Building 2A – South Wall – Centre (at 2 meter height)	Approximate Sample 3g Sample consisted of: Dust	No Asbestos Detected
11-890	Building 2A – South Wall – Right (at 2 meter height)	Approximate Sample 3g Sample consisted of: Dust	No Asbestos Detected

Sample No.	Sample Location	Sample Description (including Weight/Size)	Analysis Results
11-891	Building 2A – West Wall – Left (at 3 meter height)	Approximate Sample 3g Sample consisted of: Dust	No Asbestos Detected
11-892	Building 2A – West Wall – Left (at 4 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-893	Building 2A – West Wall – Right (at 3 meter height)	Approximate Sample 8g Sample consisted of: Dust	Chrysotile asbestos detected in fibre cement fragments of approximate size 5 x 2 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-894	Building 2A – North Wall – Right (at 4 meter height)	Approximate Sample 3g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-895	Building 2A – Equipment – Band Saw	Approximate Sample <1g Sample consisted of: Dust	No Asbestos Detected
11-896	Building 2A – Floor -West	Approximate Sample 4g Sample consisted of: Dust	No Asbestos Detected
11-897	Building 2A – Floor – East	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-898	Building 2A – South Wall – Switchboard (at 1 meter height)	Approximate Sample 4g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-899	Building 2A – South Wall – Right (at 1 meter height)	Approximate Sample 4g Sample consisted of: Dust	No Asbestos Detected
11-900	Building 2A – Equipment – Compressor	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-901	Building 2A – West Cupboard – Centre (at 1 meter height)	Approximate Sample <1g Sample consisted of: Dust	No Asbestos Detected
11-902	Building 2A – Shelf – Centre (at 1 meter height)	Approximate Sample 2g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.

Sample No.	Sample Location	Sample Description (including Weight/Size)	Analysis Results
11-903	Building 2A – South Wall – Centre (at 3 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-904	Building 2A – East Wall – Above Offices (at 1 meter height)	Approximate Sample 3g Sample consisted of: Dust	No Asbestos Detected
11-905	Building 2A – East Wall – Above Offices (at 2 meter height)	Approximate Sample 3g Sample consisted of: Dust	No Asbestos Detected
11-906	Building 2A – Floor – above Offices	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-907	Building 2A – Floor – Centre	Approximate Sample 3g Sample consisted of: Dust	No Asbestos Detected
11-908	Building 2A – Window Sill (at 1 meter height)	Approximate Sample 1g Sample consisted of: Dust	No Asbestos Detected
11-909	Building 2A – Floor	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-910	Building 2A – Windowsill – Centre (at 1 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-911	Building 2A – Shelf – Centre (at 1 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-912	Building 2A – Shelf – Centre (at 1 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-913	Building 2A – Floor – Centre	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-914	Building 2A – North Wall – Centre (at 1 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected
11-915	Building 2A – North Wall – Centre (at 2 meter height)	Approximate Sample 2g Sample consisted of: Dust	No Asbestos Detected

4 Recommendations

4.1 Immediate Action

It is the opinion of SLR that the following action is to be taken immediately:

- Asbestos contaminated dust was identified at the time of the inspection at 2 Wingrove Street, Alphington Victoria 3078. The friable asbestos/ACD was confirmed through laboratory analysis to be present in various locations, and should be assumed to be present to the general surface area(s) of the property.
- ACD is dust that is, or is assumed to be, contaminated with asbestos.
- Access to locations containing friable asbestos/ACD should be appropriately restricted (i.e. barricaded, etc). Persons wishing to access the areas must complete a suitable and sufficient risk assessment, the results of which include the use of appropriate Personal Protective Equipment (PPE) which include disposable coveralls and respiratory protection.

- SLR recommends that an air monitoring strategy be implemented as to assist with assessing the immediate risk of exposure to airborne fibres from the ACD
- Due to the potential of the friable asbestos in the dust becoming airborne, it is strongly recommended that access be restricted to the building until the area has been environmentally cleaned by a Class A asbestos removal contractor.
- Access should be restricted internally, and a management plan implemented to control the risk of human exposure. The area(s) should be labelled to indicate the presence of asbestos in the dust.
- The Work Health and Safety Regulations contain specific obligations for a number of duty holders in relation to safely removing asbestos, including requirements for asbestos removalists to be licensed.
- Asbestos contaminated dust or debris (ACD) at a workplace must be cleaned up by a Class A asbestos removalist unless the ACD that is associated with or derived from the removal of that non-friable ACM) as specified in the asbestos removal licence OHS Regulations r461 however, it would be strongly recommended that a Class A removalist is engaged to undertake these works.
- A Technical Scope of Works for remediation should be considered to be developed prior to undertaking works, to ensure all required aspects of the remediation are considered.

5 Limitations

Surveys/Inspections are conducted in a conscientious and professional manner. The nature of the task and the likely disproportion between any damage or loss which might arise from the work or reports prepared, and the cost of our services, is such that SLR cannot guarantee that all asbestos building materials have been identified and/or addressed.

Due to the possibility of renovations and additions to the building(s) over time, ACM may have been concealed (for example behind new walls, flooring, ceilings, within boxing, etc.); such areas may have been inaccessible during the inspection. If any materials reasonably suspected of containing asbestos are found during renovation and/or demolition of the building, which are not identified within this report, the client's independent consultant, SLR, should be contacted to complete additional confirmatory sampling and analysis as required.

The analysis was undertaken by Eurofins Mgt (NATA Accredited number: 1261).

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).

A change in building use/nature of activities could affect the control actions recommended within this report and a re-survey may be required.

Thus, while we carry out the work to the best of our ability, we totally exclude any loss or damages which may arise from services we have provided to Darebin City Council and/or associated parties.

Where potential ACM are identified these are normally reported on to the best of the consultant's ability. Analysis is not normally included and there is no guarantee that all such materials have been identified and/or addressed.

All work conducted and reports produced by SLR are prepared for a particular Client's objective and are based on a specific scope, conditions and limitations, as agreed upon between SLR and the Client. Information and/or report(s) prepared by SLR may therefore not be suitable for any use other than the intended objective. No parties other than the Client should use any information and/or report(s) without first conferring with SLR.

I trust that this report provides sufficient detail for your current requirements. We would be pleased to discuss this report with you as required - please do not hesitate to call me on (03) 0428788513 if you have any queries.

6 Feedback

At SLR, we are committed to delivering professional quality service to our clients. We are constantly looking for ways to improve the quality of our deliverables and our service to our clients. Client feedback is a valuable tool in helping us prioritise services and resources according to our client needs.

To achieve this, your feedback on the team's performance, deliverables and service are valuable and SLR welcome all feedback via https://www.slrconsulting.com/en/feedback. We recognise the value of your time and we will make a $10 donation to our 2022 Charity Partner – Lifeline, for every completed form.

Yours sincerely

KRISHNA KADALI
Senior Project Consultant
Licensed Asbestos Assessor -

Checked/ JH
Authorised by: JH

APPENDIX A

Certificate of Analysis

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

SLR Consulting (Vic)
Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

Attention:	James Bracken
Report	943834-AID
Project Name	Melbourne Innovation Centre
Project ID	640.30578.00100
Received Date	Nov 23, 2022
Date Reported	Nov 24, 2022

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 Melbourne Innovation Centre
Project ID 640.30578.00100
Date Sampled Nov 23, 2022 to Dec 23, 2022
Report 943834-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
11-873 - Building 2A	22-No0055683	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-874 - Building 2A	22-No0055684	Nov 23, 2022	Approximate Sample 5g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-875 - Building 2A	22-No0055685	Nov 23, 2022	Approximate Sample 1g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-876 - Building 2A	22-No0055686	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-877 - Building 2A	22-No0055687	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-878 - Building 2A	22-No0055688	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
11-879 - Building 2A	22-No0055689	Nov 23, 2022	Approximate Sample <1g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-880 - Building 2A	22-No0055690	Nov 23, 2022	Approximate Sample <1g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-881- Building 2A	22-No0055691	Nov 23, 2022	Approximate Sample <1g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-882 - Building 2A	22-No0055692	Dec 23, 2022	Approximate Sample <1g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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	Melbourne	Nov 23, 2022	Indefinite

eurofins

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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Project Name: Melbourne Innovation Centre
Project ID: 640.30578.00100

Order No.:
Report #: 943834
Phone: 03 9249 9400
Fax:

Received: Nov 23, 2022 5:29 PM
Due: Nov 24, 2022
Priority: 1 Day
Contact Name: James Bracken

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA # 1261 Site # 1254						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	11-873 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055683	X
2	11-874 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055684	X
3	11-875 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055685	X
4	11-876 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055686	X
5	11-877 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055687	X
6	11-878 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055688	X
7	11-879 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055689	X
8	11-880 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055690	X

eurofins

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NATA# 1261 Site# 18217

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Contact Name: James Bracken

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA # 1261 Site # 1254						X
9	11-881-Building 2A	Nov 23, 2022		Building Materials	M22-No0055691	X
10	11-882 - Building 2A	Dec 23, 2022		Building Materials	M22-No0055692	X
Test Counts						10

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 the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
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:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
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.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
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* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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

Asbestos Counter/Identifier:

Hiren Patel	Senior Analyst-Asbestos

Authorised by:

Zoe Burke	Senior Analyst-Asbestos

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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NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

SLR Consulting (Vic)
Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

Attention:	James Bracken
Report	943836-AID
Project Name	Melbourne Innovation Centre
Project ID	640.30578.00100
Received Date	Nov 23, 2022
Date Reported	Nov 24, 2022

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 Melbourne Innovation Centre
Project ID 640.30578.00100
Date Sampled Nov 23, 2022 to Dec 23, 2022
Report 943836-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
11-883 - Building 2A	22-No0055696	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-884 - Building 2A	22-No0055697	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-885 - Building 2A	22-No0055698	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibre bundle approximate size: 5 x 1 x 1mm. Organic fibre detected. Synthetic mineral fibre detected. No trace asbestos detected.
11-886 - Building 2A	22-No0055699	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-887 - Building 2A	22-No0055700	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-888 - Building 2A	22-No0055701	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
11-889 - Building 2A	22-No0055702	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-890 - Building 2A	22-No0055703	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-891- Building 2A	22-No0055704	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-892 - Building 2A	22-No0055705	Dec 23, 2022	Approximate Sample 2g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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	Melbourne	Nov 23, 2022	Indefinite

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Company Name: SLR Consulting (Vic)
Address: Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

Project Name: Melbourne Innovation Centre
Project ID: 640.30578.00100

Order No.:
Report #: 943836
Phone: 03 9249 9400
Fax:

Received: Nov 23, 2022 5:29 PM
Due: Nov 24, 2022
Priority: 1 Day
Contact Name: James Bracken

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA # 1261 Site # 1254						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	11-883 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055696	X
2	11-884 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055697	X
3	11-885 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055698	X
4	11-886 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055699	X
5	11-887 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055700	X
6	11-888 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055701	X
7	11-889 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055702	X
8	11-890 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055703	X

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Project Name: Melbourne Innovation Centre
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Order No.:
Report #: 943836
Phone: 03 9249 9400
Fax:

Received: Nov 23, 2022 5:29 PM
Due: Nov 24, 2022
Priority: 1 Day
Contact Name: James Bracken

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA # 1261 Site # 1254						X
9	11-891-Building 2A	Nov 23, 2022		Building Materials	M22-No0055704	X
10	11-892 - Building 2A	Dec 23, 2022		Building Materials	M22-No0055705	X
Test Counts						10

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 the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
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:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
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.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
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* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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

Asbestos Counter/Identifier:

Zoe Burke	Senior Analyst-Asbestos

Authorised by:

Sheha Prakash	Senior Analyst-Asbestos

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.

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Accreditation Number 1261
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NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention:	James Bracken
Report	943837-AID
Project Name	Melbourne Innovation Centre
Project ID	640.30578.00100
Received Date	Nov 23, 2022
Date Reported	Nov 24, 2022

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 Melbourne Innovation Centre
Project ID 640.30578.00100
Date Sampled Nov 23, 2022 to Dec 23, 2022
Report 943837-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
11-893 - Building 2A	22-No0055706	Nov 23, 2022	Approximate Sample 8g Sample consisted of: Dust	Chrysotile asbestos detected in fibre cement fragments of approximate size 5 x 2 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-894 - Building 2A	22-No0055707	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-895 - Building 2A	22-No0055708	Nov 23, 2022	Approximate Sample <1g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-896 - Building 2A	22-No0055709	Nov 23, 2022	Approximate Sample 4g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-897 - Building 2A	22-No0055710	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibres detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
11-898 - Building 2A	22-No0055711	Nov 23, 2022	Approximate Sample 4g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-899 - Building 2A	22-No0055712	Nov 23, 2022	Approximate Sample 4g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-900- Building 2A	22-No0055713	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-901- Building 2A	22-No0055714	Nov 23, 2022	Approximate Sample <1g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-902 - Building 2A	22-No0055715	Dec 23, 2022	Approximate Sample 2g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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	Melbourne	Nov 23, 2022	Indefinite

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NATA# 1261 Site# 1254

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Company Name: SLR Consulting (Vic)
Address: Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

Project Name: Melbourne Innovation Centre
Project ID: 640.30578.00100

Order No.:
Report #: 943837
Phone: 03 9249 9400
Fax:

Received: Nov 23, 2022 5:29 PM
Due: Nov 24, 2022
Priority: 1 Day
Contact Name: James Bracken

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA # 1261 Site # 1254						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	11-893 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055706	X
2	11-894 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055707	X
3	11-895 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055708	X
4	11-896 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055709	X
5	11-897 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055710	X
6	11-898 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055711	X
7	11-899 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055712	X
8	11-900- Building 2A	Nov 23, 2022		Building Materials	M22-No0055713	X

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Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA # 1261 Site # 1254						X
9	11-901-Building 2A	Nov 23, 2022		Building Materials	M22-No0055714	X
10	11-902 - Building 2A	Dec 23, 2022		Building Materials	M22-No0055715	X
Test Counts						10

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 the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
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:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
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.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
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* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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

Asbestos Counter/Identifier:

Hiren Patel	Senior Analyst-Asbestos

Authorised by:

Zoe Burke	Senior Analyst-Asbestos

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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Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

SLR Consulting (Vic)
Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

Attention:	James Bracken
Report	943840-AID
Project Name	Melbourne Innovation Centre
Project ID	640.30578.00100
Received Date	Nov 23, 2022
Date Reported	Nov 24, 2022

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 Melbourne Innovation Centre
Project ID 640.30578.00100
Date Sampled Nov 23, 2022 to Dec 23, 2022
Report 943840-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
11-903 - Building 2A	22-No0055724	Nov 23, 2022	Approximate Sample 2g / -mm Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-904 - Building 2A	22-No0055725	Nov 23, 2022	Approximate Sample 3g / -mm Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-905 - Building 2A	22-No0055726	Nov 23, 2022	Approximate Sample 3g / -mm Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-906 - Building 2A	22-No0055727	Nov 23, 2022	Approximate Sample 2g / -mm Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-907 - Building 2A	22-No0055728	Nov 23, 2022	Approximate Sample 3g / -mm Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-908 - Building 2A	22-No0055729	Nov 23, 2022	Approximate Sample 1g / -mm Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-909 - Building 2A	22-No0055730	Nov 23, 2022	Approximate Sample 2g / -mm Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
11-910- Building 2A	22-No0055731	Nov 23, 2022	Approximate Sample 2g / -mm Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-911- Building 2A	22-No0055732	Nov 23, 2022	Approximate Sample 2g / -mm Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
11-912 - Building 2A	22-No0055733	Dec 23, 2022	Approximate Sample 2g / -mm Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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	Melbourne	Nov 23, 2022	Indefinite

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Contact Name: James Bracken

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA # 1261 Site # 1254						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	11-903 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055724	X
2	11-904 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055725	X
3	11-905 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055726	X
4	11-906 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055727	X
5	11-907 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055728	X
6	11-908 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055729	X
7	11-909 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055730	X
8	11-910- Building 2A	Nov 23, 2022		Building Materials	M22-No0055731	X

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Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA # 1261 Site # 1254						X
9	11-911-Building 2A	Nov 23, 2022		Building Materials	M22-No0055732	X
10	11-912 - Building 2A	Dec 23, 2022		Building Materials	M22-No0055733	X
Test Counts						10

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g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

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%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w**).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
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.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
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* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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

Asbestos Counter/Identifier:

Zoe Burke	Senior Analyst-Asbestos

Authorised by:

Sheha Prakash	Senior Analyst-Asbestos

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

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

SLR Consulting (Vic)
Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

Attention:	James Bracken
Report	943842-AID
Project Name	Melbourne Innovation Centre
Project ID	640.30578.00100
Received Date	Nov 23, 2022
Date Reported	Nov 24, 2022

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 Melbourne Innovation Centre
Project ID 640.30578.00100
Date Sampled Nov 23, 2022 to Dec 23, 2022
Report 943842-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
11-913 - Building 2A	22-No0055748	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-914 - Building 2A	22-No0055749	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-915 - Building 2A	22-No0055750	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-916 - Building 3A-3D - Mezzanine	22-No0055751	Nov 23, 2022	Approximate Sample <1g Sample consisted of: Dust	No asbestos detected at the reporting limit of 0.01% w/w. Synthetic mineral fibres detected. Organic fibres detected. No trace asbestos detected.
11-917 - Building 3A-3D - Mezzanine	22-No0055752	Nov 23, 2022	Approximate Sample 4g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected.
11-918 - Building 3A-3D - Mezzanine	22-No0055753	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 1mm. Synthetic mineral fibres detected. Organic fibres detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
11-919 - Building 3A-3D - Mezzanine	22-No0055754	Nov 23, 2022	Approximate Sample 3g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 2 x 2mm. Synthetic mineral fibres detected. Organic fibres detected.
11-920 - Building 3A-3D - Mezzanine	22-No0055755	Nov 23, 2022	Approximate Sample 1g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected.
11-921 - Building 3A-3D - Mezzanine	22-No0055756	Nov 23, 2022	Approximate Sample 2g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 5 x 5 x 2mm. Synthetic mineral fibres detected. Organic fibres detected.
11-922 - Building 3A-3D - Mezzanine	22-No0055757	Dec 23, 2022	Approximate Sample 5g Sample consisted of: Dust	Chrysotile asbestos detected in the form of loose fibres of approximate size 10 x 2 x 2mm. Synthetic mineral fibres detected. Organic fibres detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

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	Melbourne	Nov 23, 2022	Indefinite

eurofins

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email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

Geelong
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Grovedale
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NATA# 1261 Site# 1254

Sydney
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Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
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Mitchell
ACT 2911
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Brisbane
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Tel: +61 2 4968 8448
NATA# 1261 Site# 25079

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Eurofins Environment Testing NZ Ltd
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IANZ# 1327

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43 Detroit Drive
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Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

Company Name: SLR Consulting (Vic)
Address: Suite 2, Grd Flr, 2 Domville Ave
Hawthorn
VIC 3122

Project Name: Melbourne Innovation Centre
Project ID: 640.30578.00100

Order No.:
Report #: 943842
Phone: 03 9249 9400
Fax:

Received: Nov 23, 2022 5:29 PM
Due: Nov 24, 2022
Priority: 1 Day
Contact Name: James Bracken

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA # 1261 Site # 1254						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	11-913 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055748	X
2	11-914 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055749	X
3	11-915 - Building 2A	Nov 23, 2022		Building Materials	M22-No0055750	X
4	11-916 - Building 3A-3D -Mezzanine	Nov 23, 2022		Building Materials	M22-No0055751	X
5	11-917 - Building 3A-3D -Mezzanine	Nov 23, 2022		Building Materials	M22-No0055752	X
6	11-918 - Building 3A-3D -Mezzanine	Nov 23, 2022		Building Materials	M22-No0055753	X
7	11-919 -	Nov 23, 2022		Building	M22-No0055754	X

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Received: Nov 23, 2022 5:29 PM
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Contact Name: James Bracken

Eurofins Analytical Services Manager : Harry Bacalis

Sample Detail						Asbestos Absence /Presence
Melbourne Laboratory - NATA # 1261 Site # 1254						X
	Building 3A-3D -Mezzanine			Materials		
8	11-920 - Building 3A-3D -Mezzanine	Nov 23, 2022		Building Materials	M22-No0055755	X
9	11-921 - Building 3A-3D -Mezzanine	Nov 23, 2022		Building Materials	M22-No0055756	X
10	11-922 - Building 3A-3D -Mezzanine	Dec 23, 2022		Building Materials	M22-No0055757	X
Test Counts						10

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 the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
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:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
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K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
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PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
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SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
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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* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

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

Asbestos Counter/Identifier:

Hiren Patel	Senior Analyst-Asbestos

Authorised by:

Sheha Prakash	Senior Analyst-Asbestos

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.

APPENDIX B

Airborne Asbestos Monitoring Report

SLR Consulting Australia Pty Ltd
ABN 29 001 584 612
http://www.slrconsulting.com

Sydney Office
Tenancy 202, Submarine School
Sub-Base Platypus, 120 High Street
North Sydney NSW 2060
+61 2 9427 8100

NATA ACCREDITED LABORATORY NUMBER:3130

Accredited for compliance with ISO/IEC 17025- Testing. This report cannot be reproduced except in full.

Asbestos Air Monitoring Report

Test method in accordance with NOHSC:3003(2005) AP-01.03, AP-02.01, 02.03, 02.04 & AP-03

Reference: 640.30578.00100-R001-v1.0-AMR
Date of Analysis: 25 November 2022
Date of Issue: 26 November 2022
Removal Contractor: N/A
Site Address: Melbourne Innovation Centre, 2 Wingrove Street, Alphington VIC 3078

Client: Darebin City Council
Client Address:
274 Gower Street
Preston 3072
Field Lab Address: N/A

Date of Test	Sample Code	Type of Mon	Mon Loc'n	Airflow (L/min)			Time		Total (min)	Count		Conc'n (fibres/ml)
				On	Off	Avg	On	Off		Fields	Fibres	
23/11/2022	**Blank**	N/A	0	N/A	N/A	N/A	N/A	N/A	N/A	100	0.0	N/A
23/11/2022	V-00074-1	Background	1	1.0	1.0	1.0	09:27	16:50	443	100	1.0	<0.01
23/11/2022	V-00074-2	Background	2	1.0	1.0	1.0	09:29	16:52	443	100	1.0	<0.01
23/11/2022	V-00074-3	Background	3	1.0	1.0	1.0	09:31	16:54	443	100	1.0	<0.01
23/11/2022	V-00074-4	Background	4	2.0	2.0	2.0	14:35	18:40	245	100	2.0	<0.01
23/11/2022	V-00074-5	Background	5	2.0	2.0	2.0	14:37	18:39	242	100	3.0	<0.01

Monitoring Locations

0 Blank
1 Building 2A - Ground Level - Workshop - West Wall
2 Building 2A - Ground Level -Workshop - Northwall
3 Building 2A - Ground Level - Kitchen - East Wall
4 Building 3A-3D - Mezzanine Level - Ladies Toilet-Central
5 Building 3A-3D - Mezzanine Level - Kitchen - Central

Notes:

1) The results contained within this report relate only to the samples tested.
2) The report and/or information produced by SLR Consulting Australia Pty Ltd should not be reproduced and/or presented/reviewed except in full.
3) Mon = Monitoring; Loc'n = Location; Conc'n = Concentration.

Sampling Undertaken By: Krishna Kadali
Approved Fibre Counter: Krishna Kadali
Approved Fibre Signatory: James Bracken

APPENDIX C

Photographs

Photo 1: Sample 11-879

Photo 2: Sample 11-880

Photo 3: Sample 11-885

Photo 4: Sample 11-893

Photo 5: Sample 11-894

Photo 6: Sample 11-898

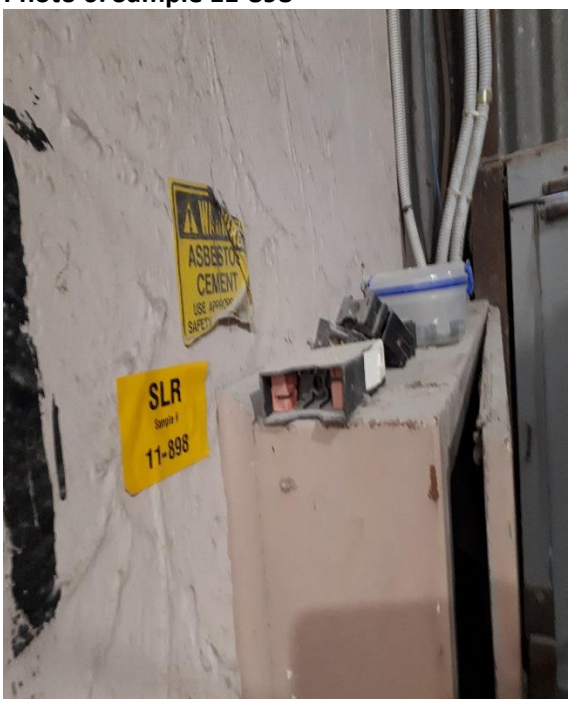
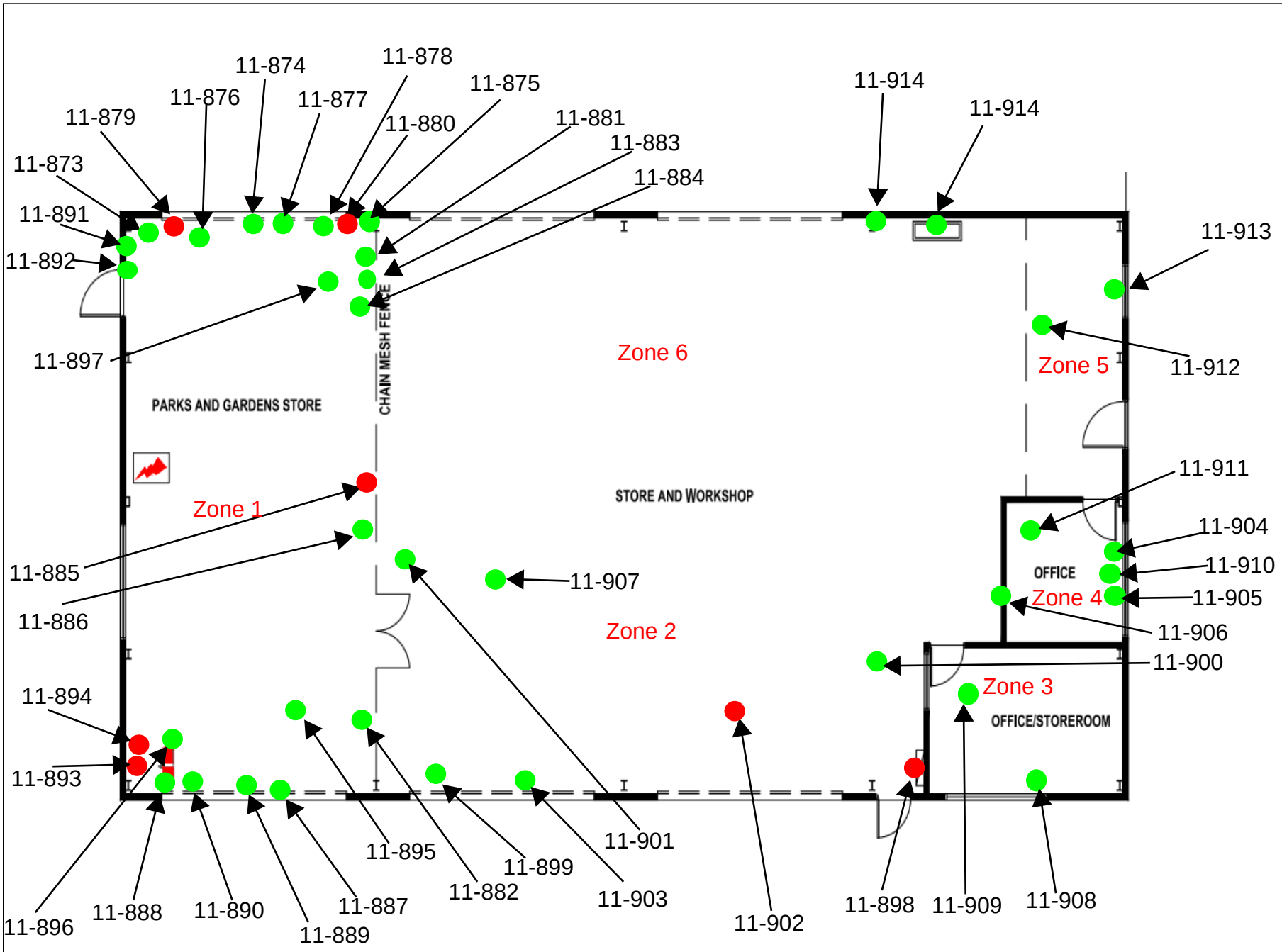


Photo 7: Sample 11-902

APPENDIX D

Sample Locations



Melbourne Innovation Centre
2 Wingrove Street, Alphington
Victoria 3078

Dust Sampling

FIGURE 1

Project Number:	640.30578.00100
Date:	November 2022
Drawn by:	Krishna Kadali
Version	V01
Client:	Darebin Council
Floor Level:	Ground Level
Address:	

LEGEND

- Positive Sample Location
- Negative Sample Location

N

Note: Drawing not to scale

SLR