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EMM Consulting Pty Ltd Ground Floor 20 Chandos Street St Leonards NSW 2065 Project 99510.01 2 December 2022 R.006.Rev0 TK / PG:jl

Attention: Anthony Davis

Email: adavis@emmconsulting.com.au

Dear Anthony

Asbestos Assessment Police Citizens Youth Club (PCYC), 600-660 Elizabeth Street, Redfern NSW

1. Introduction and Scope

Douglas Partners Pty Ltd (DP) was engaged by EMM Consulting Pty Ltd (EMM) to conduct a further asbestos assessment at the Police Citizens Youth Club (PCYC) at 600-660 Elizabeth Street, Redfern NSW (the Site). This follows DP's:

- Report on Hazardous Building Materials (HBM) Survey, Police Citizens Youth Club (PCYC), 600-660 Elizabeth Street, Redfern NSW, 18 December 2019 (ref. 9951.01.R.001.Rev0) (DP, 2019);
- Asbestos Assessment Police Citizens Youth Club (PCYC), 600-660 Elizabeth Street, Redfern NSW, 14 April 2020 (ref. 99510.01.R.002.Rev0) (DP, 2020a);
- Asbestos Assessment Police Citizens Youth Club (PCYC), 600-660 Elizabeth Street, Redfern NSW, 26 October 2020 (ref. 99510.01.R.003.Rev0) (DP, 2020b);
- Asbestos Assessment Police Citizens Youth Club (PCYC), 600-660 Elizabeth Street, Redfern NSW, 15 October 2021 (ref. 99510.01.R.004.Rev0) (DP, 2021); and
- Asbestos Assessment Police Citizens Youth Club (PCYC), 600-660 Elizabeth Street, Redfern NSW, 10 May 2022 (ref. 99510.01.R.005.Rev0) (DP, 2022).

This assessment comprised:

- Further evaluation of background airborne asbestos fibre concentrations in interior occupied areas and safely accessible roof cavities; and
- Re-inspection of the condition of the blue vinyl floor tiles (2 occurrences) identified in DP (2019, 2020a, b, 2021 and 2022).

This report outlines the results of the assessment and provides general recommendations.



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2. Site Description

The PCYC is located on a property at the eastern side of Elizabeth Street at its intersection with Phillip Street in Redfern NSW. The southern section of the property (approx. 4,000 m²) generally comprises a single storey brick building (i.e., PCYC) with car park, sports court and covered playground area. A foundation stone at the western side of the building indicates construction of the main building in 1952. A building layout plan sourced from the PCYC, and including some room nomenclature added by DP, is provided in Attachment A.

3. Method

Airborne asbestos monitoring was conducted in accordance with the NOHSC *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC:3003(2005)]. Monitoring was conducted on three mutually agreed days. EMM were responsible for ensuring that conditions on these days reflected normal operating conditions and not less than and normal occupancy levels. All samples were analysed by a National Association of Testing Authorities (NATA) accredited laboratory that is accredited for the relevant test method.

Unaided visual inspection of the blue vinyl floor tiles was undertaken by a Licensed Asbestos Assessor (LAA).

Selected photographs taken during the assessment are provided in Attachment B.

4. Results

4.1 General

Several rooms located at the northern end of the PCYC building were occupied by childcare services during this assessment. These rooms included the Dance Studio, Storage 2, Computer Room and Martial Arts. Air monitoring was not conducted in these areas due to the sensitive nature of occupation.

4.2 Air Monitoring

The laboratory certificates of analysis for the air monitoring are provided in Attachment C. All air monitoring results were <0.01 f/mL and below the reporting limit of the method used. These results are considered acceptable for Work Health and Safety (WHS) purposes.



4.3 Vinyl Tile Inspection

The results of the vinyl tile inspection, including an asbestos risk assessment, are summarised in Attachment D. No appreciable change in the general condition of the vinyl floor tiles, or their overall asbestos risk rating (i.e., a risk rating of "Low"), was identified when compared to DP (2019), DP (2020a, b), DP (2021) and DP (2022).

The vinyl floor tiles in Storage 7 were covered by carpet at the time of inspection (refer photograph 1 and 2 in Attachment B). Therefore, the inspection comprised peeling back the carpet in several areas to enable assessment and not all areas of vinyl floor tile could be accessed.

The floor area of Stationary Store was loosely covered by foam matting and access was also limited by stored gym equipment at the time of the inspection (refer photograph 3 and 4 in Attachment B). Therefore, inspection was conducted around and below the matting in several locations and not all areas of vinyl floor tile could be accessed.

5. Recommendations

5.1 General

Reference should be made to previous DP reports (refer Section 1) for additional general information regarding the identification and management of HBM, including asbestos containing material (ACM), at the site. Note, however, that regulatory and other requirements may change from time-to-time and that this may warrant revision of the abovementioned DP reports.

HBM should be managed in accordance with the requirements of the NSW WHS Act and Regulation and subordinate Codes of Practice, Australian Standards and guidelines.

A HBM management plan should be developed to aid compliance with the requirements of the NSW WHS Act and Regulation.

HBM should be visually inspected on a regular basis. Any change to the condition of the material or relevant site conditions should be reported.

HBM should be removed prior to any significant disturbance such as maintenance, refurbishment and demolition work.

Prior to any work involving HBM a risk assessment should be conducted, and Safe Work Method Statement (SWMS) developed. The SWMS should outline the controls necessary to ensure that the risks of exposure and environmental contamination are adequately controlled.

HBM remediation and removal work should be undertaken in controlled conditions.

Waste should be assessed and classified for disposal in accordance with the NSW Protection of the Environment Operations (POEO) Act, Regulation(s) and the NSW Environment Protection Authority (EPA) *Waste Classification Guidelines, Part 1: Classifying Waste*, November 2014 (EPA, 2014).



5.2 Asbestos

Asbestos and ACM must be managed in accordance the NSW WHS Regulation, the SafeWork NSW Code of Practice: How to Manage and Control Asbestos in the Workplace and the SafeWork NSW Code of Practice: How to Safely Remove Asbestos.

Exposure to airborne asbestos in the workplace must be eliminated to the extent that is reasonably practicable. If it is not reasonably practicable to eliminate exposure it must be minimised to the extent that is reasonably practicable.

An Asbestos Management Plan must be developed to enable compliance with the WHS Regulation (Clause 429).

The presence and location of asbestos or ACM identified at a workplace must be clearly indicated by a label if it is reasonably practicable to do so.

Warning labels and signs should be consistent with the examples provided in the SafeWork NSW Code of Practice: How to Manage and Control Asbestos in the Workplace and comply with AS1319 Safety Signs for the Occupational Environment.

Non-friable ACM that are structurally intact and in good to fair condition may typically remain in place provided that they are not significantly disturbed.

Tools and equipment that generate dust must generally not be used on asbestos or ACM. These include high-speed abrasive power and pneumatic tools (e.g., angle grinders, sanders, saws and high-speed drills, brooms and brushes).

Tools and equipment that cause the release of asbestos, including power tools and brooms, may only be used on asbestos if the equipment is enclosed and / or designed to capture or suppress asbestos fibres and / or the equipment is used in a way that is designed to capture or suppress asbestos fibres safely. In such a case, other controls including Personal Protective Equipment (PPE) may also be required based upon the results of a pre-work risk assessment and the SWMS adopted.

The use of high-pressure water spray and compressed air on asbestos or ACM is specifically prohibited under the WHS Regulation.

If ACM become damaged, they should be repaired or removed and replaced with an alternative, nonasbestos building product as soon as possible.

The scope of asbestos removal work should be outlined in a technical specification (i.e., Scope of Work Report) developed by a Competent Person (in the case of non-friable asbestos) or a LAA (in the case of friable asbestos).

Removal of friable asbestos must only be undertaken by a Class A licensed asbestos removalist.

Removal of 10 m^2 or more of non-friable asbestos must only be undertaken by a Class A or Class B licensed asbestos removalist.

Air monitoring, including background, control and clearance monitoring, is a mandatory requirement during removal of friable asbestos. Air monitoring should also be considered during removal of non-friable asbestos particularly where sensitive receptors exist such as at schools, hospitals, in public areas and at similar sites.

Air monitoring must be undertaken in accordance with the National Occupational Health and Safety Commission (NOHSC) *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition* [NOHSC:3003(2005)].

All air monitoring samples must be analysed by a NATA accredited laboratory that holds accreditation for the required analysis.

At the completion of asbestos removal, a clearance inspection must be conducted by a Competent Person (for non-friable asbestos removal) or a Licensed Asbestos Assessor (for friable asbestos removal).

Air monitoring and clearance inspections must be performed by person/s independent of the licensed asbestos removalist.

All waste should be classified for disposal in accordance with relevant legislation and EPA (2014). Asbestos waste is preclassified as Special Waste under these guidelines.

Asbestos transporters and facilities receiving asbestos waste must report the movement of asbestos waste to the EPA. Entities involved with the transport or disposal of asbestos waste in NSW, or arranging the transport of asbestos waste in NSW, must use the EPA's online tool, WasteLocate.

All asbestos waste must be disposed at a waste collection facility licensed to receive asbestos waste. All disposal receipts should be retained.

A person who relinquishes management or control of the workplace must ensure that the Asbestos Register is given to the person, if any, assuming management or control of the workplace.

6. Limitations

This report is provided for the exclusive use of EMM for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the conditions on the site only at the specific locations inspected, sampled and/or monitored and at the time of assessment. While the air monitoring method is considered acceptable for WHS purposes it is not sufficiently sensitive to confirm that "normal" background asbestos concentrations are present.



While work is undertaken in a professional manner the nature of the contaminant and limitations of the method(s) used mean that we cannot guarantee that all HBM or issues of concern have been identified.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be affected by undetected variations in conditions across the site between and beyond the inspection, sampling and/or monitoring locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.

DP and our personnel are not licenced quantity surveyors. Any quantities included in this report are provided as a general guide only and should not be relied upon. The services of a licenced quantity surveyor should be engaged if reliable quantities are required.

The assessment of atypical safety hazards arising from this advice is restricted to the environmental components set out in this report and based on known project conditions and stated design advice and assumptions. While some recommendations for safe controls may be provided, detailed 'safety in design' assessment is outside the current scope of this report and requires additional project data and assessment.

Should there be any discrepancy between the recommendations made in this report and the requirements of relevant any legislation, codes of practice, standards and/or guidelines then the more stringent requirement that is protective of health and safety shall apply.



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7. Closure

We trust that the foregoing is of assistance. Please contact the undersigned if you have any questions on this matter.

Yours faithfully Douglas Partners Pty Ltd

Tim Kulmar Senior Occupational Hygienist Licenced Asbestos Assessor (LAA001015)

Reviewed by

p.p.

Paul Gorman Principal

Attachments:

Attachment A - Building Plan Attachment B - Photographs Attachment C - Laboratory Certificates of Analysis (Air Monitoring) Attachment D - Vinyl Tile Inspection Results

Attachment A

Building Plans





PROJECT No:	99510.01
DRAWING No:	1
REVISION:	A

Attachment B

Photographs



Photograph 1: PCYC, interior, storage 7, floor - blue vinyl floor tiles below carpet.



Photograph 2: PCYC, interior, storage 7, floor - blue vinyl floor tiles below carpet.

	Site Photographs	PROJECT:	99510.01
Douglas Partners	Asbestos Assessment	PLATE No:	1
	600-660 Elizabeth Street, Redfern NSW	REV:	А
	CLIENT: EMM Consulting Pty Ltd	DATE:	Nov 2022



Photograph 3: PCYC, interior, stationary store, floor, below matting - blue vinyl floor tiles.



Photograph 4: PCYC, interior, stationary store, floor, below matting - blue vinyl floor tiles.

Site Photographs	PROJECT:	99510.01
Asbestos Assessment	PLATE No:	2
600-660 Elizabeth Street, Redfern NSW	REV:	А
CLIENT: EMM Consulting Pty Ltd	DATE:	Nov 2022

Attachment C

Laboratory Certificate(s) of Analysis (Air Monitoring)



Certificate of Analysis

Douglas Partners (Syd) 96 Hermitage Road West Ryde NSW 2114



Environment Testing

NATA Accredited Accreditation Number 1261 Site Number 18217

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.

Attention:	Tim Kulmar
Report	942326-AFC
Project Name	REDFERN PCYC
Project ID	99510.01
Received Date	Nov 17, 2022
Date Reported	Nov 24, 2022

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2021.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition, [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2021 are realised.



Project Name	REDFERN PCYC
Project ID	99510.01
Date Sampled	Nov 14, 2022
Report	942326-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
22-No0043729	DE323417	DP22	ENTRANCE TO COMPUTER ROOM	9:45	17:07	2.0	2.0	0/100	< 0.01
22-No0043730	DE323415	DP12	CEILING CAVITY ABOVE GARDEN STORAGE	9:47	17:10	2.0	2.0	0/100	< 0.01
22-No0043731	DE323459	DP24	GYM/ BOXING NORTH WEST	9:49	17:12	2.0	2.0	5/100	< 0.01
22-No0043732	DE323431		MAIN HALLWAY NORTH END					2/100	
22-No0043733	DE323450	DP03	STATIONARY STOR	9:52	17:16	2.0	2.0	0/100	< 0.01
22-No0043734	DE323437	DP26	GYM/ BOXING SOUTH EAST	9:54	17:19	2.0	2.0	0/100	< 0.01
22-No0043735	DE323423	DP04	FOYER	9:55	17:21	2.0	2.0	0/100	< 0.01
22-No0043736	DE323429	DP23	WEIGHT GYM/ SOUTH EAST	9:56	17:23	2.0	2.0	0/100	< 0.01



Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
22-No0043737	DE323420	DP25	MEZZANINE VIEWING GALLERY, SOUTH	9:57	17:26	2.0	2.0	0/100	< 0.01
22-No0043738	DE323457	DP05	LOUNGE, EAST	9:59	17:28	2.0	2.0	0/100	< 0.01
22-No0043739	DE323414		BLANK					0/100	



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

Asbestos - LTM-ASB-8010 Asbestos - LTM-ASB-8010

Testing Site	Extracted	Holding Time
Sydney	Nov 18, 2022	Indefinite
Sydney	Nov 18, 2022	Indefinite

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Company Name: Address: Douglas Patners (Syd) 96 Hormitage Road West Kyde NSW 2114 Order No.: Report #: 942326 Received: 02 909 0666 Nov 17, 2022 9.22 AM Due: 92 909 0666 Project No: Project ID: REDEFERN PCYC 99510.01 Sumple Detail Fax: 02 909 0666 Eurofins Analytical Services Manager : Hannah Mawbey Sydney Laboratory - NATA # 1261 Site # 18217 X X X No Sample Detail Fax: 02 900 0676 Survival Survival Sydney Laboratory - NATA # 1261 Site # 18217 X X X No Sample Detail Fax: Order No: 900 001 Survival Signey Laboratory - NATA # 1261 Site # 18217 X X No Sample Detail Survival X No Sample Data Matrix LAB ID I 1 DE323417 Nov 14, 2022 9450M Arr 2 DE323417 Nov 14, 2022 9450M X 3 DE323421 Nov 14, 2022 9450M X 3 DE323421 Nov 14, 2022 9450M X <	web: www.eurofins.com.au email: EnviroSales@eurofins.com		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 125		ad uth I 5000 ite# 1254	Geelong 19/8 Lewalan Stree Grovedale VIC 3216 Tel: +61 3 8564 50 NATA# 1261 Site#	Sydney 179 Mag Girrawee NSW 214 00 Tel: +61 1254 NATA# 1	Sydney 179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 182		Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 17	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 207	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2290 Tel: +61 2 4968 8448 '94 NATA# 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
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6 DE323437 Nov 14, 2022 9:54AM Air S22-No0043734 X 7 DE323423 Nov 14, 2022 9:55AM Air S22-No0043735 X 8 DE323429 Nov 14, 2022 9:56AM Air S22-No0043736 X 9 DE323420 Nov 14, 2022 9:57AM Air S22-No0043737 X 10 DE323457 Nov 14, 2022 9:59AM Air S22-No0043738 X 11 DE323414 Nov 14, 2022 Air S22-No0043739 X Test Counts	5	DE323450	Nov 14, 2022	9:52AM	Air	S22-	No0043733		X	_					
7 DE323423 Nov 14, 2022 9:55AM Air S22-No0043735 X 8 DE323429 Nov 14, 2022 9:56AM Air S22-No0043736 X 9 DE323420 Nov 14, 2022 9:57AM Air S22-No0043737 X 10 DE323457 Nov 14, 2022 9:59AM Air S22-No0043738 X 11 DE323414 Nov 14, 2022 Air S22-No0043739 X Test Counts	6	DE323437	Nov 14, 2022	9:54AM	Air	S22-	No0043734		X	_					
8 DE323429 Nov 14, 2022 9:56AM Air S22-No0043736 X 9 DE323420 Nov 14, 2022 9:57AM Air S22-No0043737 X 10 DE323457 Nov 14, 2022 9:59AM Air S22-No0043738 X 11 DE323414 Nov 14, 2022 Air S22-No0043739 X Test Counts	7	DE323423	Nov 14, 2022	9:55AM	Air	S22-	No0043735		X	4					
9 DE323420 Nov 14, 2022 9:57AM Air S22-No0043737 X 10 DE323457 Nov 14, 2022 9:59AM Air S22-No0043738 X 11 DE323414 Nov 14, 2022 Air S22-No0043739 X Test Counts 1 10 10	8	DE323429	Nov 14, 2022	9:56AM	Air	S22-	No0043736		X	4					
10 DE323457 Nov 14, 2022 9:59AM Air S22-No0043738 X 11 DE323414 Nov 14, 2022 Air S22-No0043739 X Test Counts	9	DE323420	Nov 14, 2022	9:57AM	Air	S22-	No0043737		X	4					
11 DE323414 Nov 14, 2022 Air S22-No0043739 X Test Counts 1 10	10	DE323457	Nov 14, 2022	9:59AM	Air	S22-	No0043738		X	4					
Test Counts	11	DE323414	Nov 14, 2022		Air	S22-	No0043739		Х	4					
	Test	Counts						1	10						



Internal Quality Control Review and Glossary General

- 1. 2.
- 3
- 4. 5.
- QC data may be available on request. All soil results are reported on a dry basis, unless otherwise stated. Samples were analysed on an 'as received' basis. Information identified on this report with the colour blue indicates data provided by customer that may have an impact on the results. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation. This report replaces any interim results previously issued.
- 6.

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: F/fld F/mL g. kg g/kg L, mL L/min min	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w) Airborne fibre filter loading as Fibres (N) per Fields counted (n) Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (C) Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m) Concentration in grams per kilogram Volume, e.g. of air as measured in AFM (V = r x t) Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r) Time (t), e.g. of air sample collection period
Calculations Airborne Fibre Concentration:	$C = \binom{A}{n} \times \binom{N}{n} \times \binom{1}{n} \times \binom{1}{n} = K \times \binom{N}{n} \times \binom{1}{n}$
Asbestos Content (as asbestos):	$\% w/w = \frac{(m \times P_A)}{M}$
Weighted Average (of asbestos):	$\mathscr{H}_{WA} = \sum \frac{(m \times P_A)_X}{x}$
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

Volume Measurement : , Douglas Partners (Syd), has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by Douglas Partners (Syd) were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

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:

Bennel Jiri Senior Analyst-Asbestos

Authorised by:

Laxman Dias

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.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



Certificate of Analysis

Douglas Partners (Syd) 96 Hermitage Road West Ryde NSW 2114



Environment Testing

NATA Accredited Accreditation Number 1261 Site Number 18217

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.

Attention:	Tim Kulmar
Report	942338-AFC
Project Name	REDFERN PCYC
Project ID	99510.01
Received Date	Nov 17, 2022
Date Reported	Nov 24, 2022

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2021.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition, [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2021 are realised.



Project Name	REDFERN PCYC
Project ID	99510.01
Date Sampled	Nov 15, 2022
Report	942338-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location		End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
22-No0043766	DE323438	DP25	WEIGHT GYM 2, NORTH WEST	9:56	16:39	2.0	2.0	0/100	< 0.01
22-No0043767	DE323447	DP23	MEZZANINE SHOWER, TOILET, SOUTH WEST	10:00	16:39	2.0	2.0	0/100	< 0.01
22-No0043768	DE323449	DP12	STORAGE 7, SOUTH		14:41	2.0	2.0	0/100	< 0.01
22-No0043769	DE323440	DP03	CEILING CAVITY ABOVE STORAGE 3	10:07	16:46	2.0	2.0	0/100	< 0.01
22-No0043770	DE323458		TOILET ADJACENT POLICE CHANGING ROOM					1/100	
22-No0043771	DE323422	DP05	HALLWAY, ENTRANCE TO DANCE STUDIO	10:15	16:45	2.0	2.0	3/100	< 0.01
22-No0043772	DE323433	DP22	STORE 6, EAST	10:17	16:36	2.0	2.0	0/100	< 0.01
22-No0043773	DE323421	DP24	CEILING CAVITY ABOVE GARDEN STORAGE	10:18	16:37	2.0	2.0	0/100	< 0.01



Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
22-No0043774	DE323419	DP04	MAIN HALLWAY, NORTH END	10:03	16:44	2.0	2.0	0/100	< 0.01
22-No0043775	DE006448		BLANK					0/100	



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

Asbestos - LTM-ASB-8010 Asbestos - LTM-ASB-8010

Testing Site	Extracted	Holding Time
Sydney	Nov 18, 2022	Indefinite
Sydney	Nov 18, 2022	Indefinite

Eurofins Environment Testing Australia Pty Ltd					Pty Ltd					Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm	ent Testing NZ Ltd		
web: w email:	ww.eurofins.com.au	CINS.	Melbourne 6 Monterey Roa Dandenong Sou VIC 3175 Tel: +61 3 8564 NATA# 1261 Sit	d ith 5000 e# 1254	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254	Sydney 179 Mago Girraweer NSW 214 Tel: +61 2 NATA# 12	war Ro 5 2 9900 8 261 Site	ad 3400 # 1821	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 7	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 20794	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 4 NATA# 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
Co Ad	ompany Name: Idress:	Douglas Par 96 Hermitag West Ryde NSW 2114	rtners (Syd) je Road					O Re Pi Fa	rder No.: eport #: 942 hone: 02 ax:	2338 9809 0666		Received: Due: Priority: Contact Name:	Nov 17, 2022 9:22 Nov 24, 2022 5 Day Tim Kulmar	AM
Pro Pro	oject Name: oject ID:	REDFERN I 99510.01	PCYC								Euro	ofins Analytical Servic	es Manager : Hann	ah Mawbey
		Sa	ample Detail				Asbestos (amount of fibres in air)	Asbestos Fibre Count & Concentration						
Syd	ney Laboratory	- NATA # 1261	Site # 18217	,			Х	Х	-					
Exte	ernal Laboratory	1]					
No	Sample ID	Sample Date	Sampling Time	М	atrix LAB	ID								
1	DE323438	Nov 15, 2022	9:56AM	Air	S22-No0	043766		Х	-					
2	DE323447	Nov 15, 2022	10:00AM	Air	S22-No0	043767		Х	-					
3	DE323449	Nov 15, 2022	10:02AM	Air	S22-No0	043768		Х	-					
4	DE323440	Nov 15, 2022	10:07AM	Air	S22-No0	043769		Х	-					
5	DE323458	Nov 15, 2022	10:10AM	Air	S22-No0	043770	Х		-					
6	DE323422	Nov 15, 2022	10:15AM	Air	S22-No0	043771		Х	-					
7	DE323433	Nov 15, 2022	10:17AM	Air	S22-No0	043772		Х	4					
8	DE323421	Nov 15, 2022	10:18AM	Air	S22-No0	043773		Х	4					
9	DE323419	Nov 15, 2022	10:03AM	Air	S22-No0	043774		Х	4					
10	DE006448	Nov 15, 2022		Air	S22-No0	043775		Х	-					
Test	t Counts						1	9						



Internal Quality Control Review and Glossary General

- 1. 2.
- 3
- 4. 5.
- QC data may be available on request. All soil results are reported on a dry basis, unless otherwise stated. Samples were analysed on an 'as received' basis. Information identified on this report with the colour blue indicates data provided by customer that may have an impact on the results. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation. This report replaces any interim results previously issued.
- 6.

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: F/fid F/mL g, kg g/kg L, mL L/min min	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w) Airborne fibre filter loading as Fibres (N) per Fields counted (n) Airborne fibre reported concentration as Fibres per millilitier of air drawn over the sampler membrane (C) Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m) Concentration in grams per kilogram Volume, e.g. of air as measured in AFM (V = r x t) Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r) Time (t), e.g. of air sample collection period
Calculations	
Airborne Fibre Concentration:	$C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{v}\right)$
Asbestos Content (as asbestos):	$\% w/w = \frac{(m \times P_A)}{M}$
Weighted Average (of asbestos):	$\mathscr{H}_{WA} = \sum \frac{(m \times P_A)_X}{x}$
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.
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 Ashantas Content (as ashantas)	Australian Standard.
Aspestos Content (as aspestos)	Total 16 www.asbestos.coment in asbestos-containing linos in a son sample (% www).
COC	Chipsofie Aspestos Delected. Chipsofie may also reler to Fibrous Seperatine or write Aspestos. Identified in accordance with AS 4904-2004.
Crocidalite	Grain of Custody. Crociolitie Asheetes Detected Crociolite may also refer to Eibrous Riebeckite or Blue Asheetos Identified in accordance with AS 4964-2004
Drv	Sample is dried by heating night to analysis
DS	Dispersion Stating Provide analysis. Dispersion Stating Provide analysis.
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

Volume Measurement : , Douglas Partners (Syd), has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by Douglas Partners (Syd) were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

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:

Bennel Jiri Senior Analyst-Asbestos

Authorised by:

Laxman Dias

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.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.



Certificate of Analysis

Douglas Partners (Syd) 96 Hermitage Road West Ryde NSW 2114



Environment Testing

NATA Accredited Accreditation Number 1261 Site Number 18217

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.

Attention:	Tim Kulmar
Report	943441-AFA
Project Name	REDFERN PCYC
Project ID	99510.01
Received Date	Nov 22, 2022
Date Reported	Nov 29, 2022

METHODOLOGY:

Asbestos Counting

Conducted in accordance with the National Occupational Health & Safety Commission -Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and in-house Method LTM-ASB-8010.



REDFERN PCYC
99510.01
Nov 21, 2022
943441-AFA

Eurofins Sample No.	Client Sample ID	Location	Fibres/100 fields		
22-No0053046	DE006421	CEILING CAVITY ABOVE POLICE OFFICE	4/100		
22-No0053047	DE323451	BELOW MALZANINE MOVEMENT AREA	0/100		
22-No0053048	22-No0053048 DE323439 WEIGHT GYM/ SOUTH				
22-No0053049	DE006420	BOXING GYM SOUTH EAST	5/100		
22-No0053050	DE323430	STORAGE 3	0/100		
22-No0053051	DE323436	ΡΗΟΤΟ ROOM	0/100		
22-No0053052	DE323453	MAIN HALL NORTH END	2/100		
22-No0053053	DE002512	MAIN ENTRY FOYER	0/100		



Eurofins Sample No.	Client Sample ID	Location	Fibres/100 fields		
22-No0053054	DE323452	BOXING GYM, NORTH WEST	3/100		
22-No0053055	DE002617	BLANK	0/100		



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

Asbestos - LTM-ASB-8010

Testing SiteExtractedSydneyNov 22, 2022

Holding Time 22 Indefinite

Eurofins Environment Testing Australia Pty Ltd										Eurofins ARL Pty Ltd	Eurofins Environment Testing NZ Ltd		
web: www.eurofins.com.au email: EnviroSales@eurofins.com			Melbourne Geelong Sydney 6 Monterey Road 19/8 Lewalan Street 179 Mago Dandenong South Grovedale Girraween VIC 3175 VIC 3216 NSW 2144 Tel: +61 3 8564 5000 Tel: +61 3 8564 5000 Tel: +61 2 NATA# 1261 Site# 1254 NATA# 1261 Site# 1254			owar Road 5 2 9900 840 261 Site# 1	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 0 Tel: +61 2 6113 8091 8217	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 NATA# 1261 Site# 2079	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Tel: +61 2 4968 8448 24 NATA# 1261 Site# 25079	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: 0800 856 450 IANZ# 1290	
Co Ac	ompany Name: Idress:	Douglas Par 96 Hermitag West Ryde NSW 2114	rtners (Syd) le Road					Order No.: Report #: 94 Phone: 02 Fax:	43441 2 9809 0666		Received: Due: Priority: Contact Name:	Nov 22, 2022 3:49 Nov 29, 2022 5 Day Tim Kulmar	PM
Pr Pr	oject Name: oject ID:	REDFERN I 99510.01	PCYC							Euro	fins Analytical Servic	es Manager : Hanı	nah Mawbey
		Sa	ample Detail				Asbestos (amount of fibres in air)						
Sydney Laboratory - NATA # 1261 Site # 18217					х								
Exte	ernal Laboratory	1											
No	Sample ID	Sample Date	Sampling Time	Mat	trix LAE	BID							
1	DE006421	Nov 21, 2022	9:35AM	Air	S22-No0	053046	Х						
2	DE323451	Nov 21, 2022	9:37AM	Air	S22-No0	053047	Х						
3	DE323439	Nov 21, 2022	9:38AM	Air	S22-No0	053048	Х						
4	DE006420	Nov 21, 2022	9:40AM	Air	S22-No0	053049	Х						
5	DE323430	Nov 21, 2022	9:42AM	Air	S22-No0	053050	Х						
6	DE323436	Nov 21, 2022	9:44AM	Air	S22-No0	053051	Х						
7	DE323453	Nov 21, 2022	9:45AM	Air	S22-No0	053052	Х						
8	DE002512	Nov 21, 2022	9:47AM	Air	S22-No0	053053	Х						
9	DE323452	Nov 21, 2022	9:49AM	Air	S22-No0	053054	Х						
10	DE002617	Nov 21, 2022		Air	S22-No0	053055	Х						
Test	t Counts						10						



Internal Quality Control Review and Glossary General

- 1. 2.
- 3
- 4. 5.
- QC data may be available on request. All soil results are reported on a dry basis, unless otherwise stated. Samples were analysed on an 'as received' basis. Information identified on this report with the colour blue indicates data provided by customer that may have an impact on the results. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation. This report replaces any interim results previously issued.
- 6.

Holding Times

Units

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.

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w)
F/fld F/ml	Airborne fibre hilter loading as Fibres (N) per Fields counted (n) Airborne fibre reported concentration as Fibres per milliture of air drawn over the sampler membrane (C)
g, kg	Ansonie mole reported oblightation faither than the period of the sample (m) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0
g/kg	Concentration in grams per kilogram
L, ML L/min	volume, e.g. or air as measured in AFM ($\mathbf{v} = \mathbf{r} \times \mathbf{t}$) Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (\mathbf{r})
min	Time (t), e.g. of air sample collection period
Calculations	
Airborne Fibre Concentration:	$C = \left(\frac{A}{2}\right) \times \left(\frac{N}{2}\right) \times \left(\frac{1}{2}\right) \times \left(\frac{1}{2}\right) = K \times \left(\frac{N}{2}\right) \times \left(\frac{1}{2}\right)$
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, 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:

Bennel Jiri

Senior Analyst-Asbestos

Authorised by:

Laxman Dias

Senior Analyst-Asbestos

li falle

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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Attachment D

Vinyl Tile Inspection Results



DP Project No: 99510.01 Vinyl Tile Inspection Results PCYC, 600-660 Elizabeth Street, Redfern NSW

							Asbestos Risk Assessment								
Building	Location (General)	Location (Specific)	Material	Sample No. [#]	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.*	Summary Recommendation
PCYC	interior, storage 7	floor, below carpet	blue vinyl tiles	A16	asbestos detected by analysis	0	1	1	1	2	1	6	Low	1, 2	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
PCYC	interior, stationary store	floor	blue vinyl tiles	refer A16	asbestos detected by analysis	0	1	1	2	2	1	7	Low	3,4	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).

* Refer Attachment B.

[#] Refer DP (2019).