

7 June 2023

Randwick City Council 30 Frances Street Randwick NSW 2031

Attention: Ryan Zammit ryan.zammit@randwick.nsw.gov.au

# **RE: Asbestos Air Monitoring Report**

Dear Ryan Zammit

Please find below Asbestos air monitoring report for:

Site:	Little Bay Beach
Location:	Background air monitoring

All works have been completed in accordance with relevant state WHS Legislation and approved Codes of Practices.

See following pages for results.

Regards,

Alehm

Alex Tam Licensed Asbestos Assessor 001241 Senior Occupational Hygienist 07/06/2023





Requested by:	
Client Contact Name	Ryan Zammit
Client Contact Number	90936744
Client Contact Email Site:	ryan.zammit@randwick.nsw.gov.au
Address	2 Coast Hospital Rd, Little Bay NSW 2036
Local Government Area	Randwick City Council
Site Boundary	
Air Monitoring Locations	0
Coast Chapel         Bay - A Nurses         Coast Hospital Rd	
Air Monitoring Details:	
Date of Field Work:	07/06/2023
Start Time:	13:15
Trinitas Consultant:	Alex Tam Senior Occupational Hygienist
Sampling Type:	Asbestos
Sampling Type.	15°C







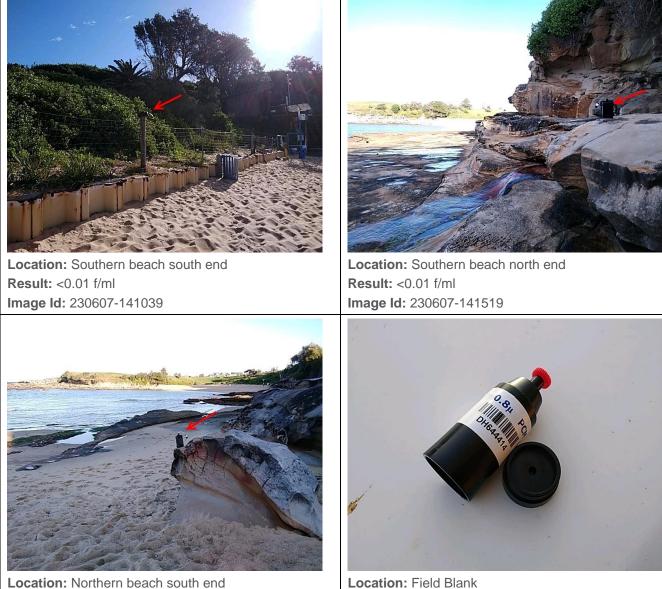


Wind Speed 2	24km/h										
Scope of Work: Background air monitoring											
Methodology:											
Asbestos fibre static air monitoring and analysis was conducted in accordance with Guidance Note on the											
Membrane Filter Method for	the Estim	ation	of Airborne	Asbestos	s Fibres (N	IOHSC:30	03: April 2	005) and			
in-house procedures of NAT	A accred	ted la	aboratory for	the estin	nation of a	irborne fib	res.				
The sample collection was p											
containing 25 mm membran	e filters tr	at we	ere flow teste	ed at the	commence	ement and	completio	n of			
sampling.											
Exposure Standard The Australian exposure sta	ndord for	aaba	ataa fibara ia	0.1 fibro	o/ml of oir	and the a	otion limit (	or			
asbestos fibres is 0.01 fibres						and the a		01			
	sini as pe				0115 2017.						
/ u	e		₽	Average Flow Rate (L/Min)	_	Total Sampling Time (Min)	(L)				
ple on e	Уp		ple	n) Ra	On	(V pli		Ilts			
Sample Location Person Name	AM Type		Sample ID	Averag Flow Rá (L/Min)	Time	otal am  me	Total Volume (	Results			
L H I				A L L		Ц З С С С С С С С С С С С С С С С С С С					
Southern beach south end Southern beach north end	B		H644374	4.0	13:15	131	524.00	<0.01 f/ml <0.01 f/ml			
Northern beach south end	B		H644424	4.0	13:19 13:23	134 134	536.00 536.00	<0.01 f/ml			
				4.0	10.20	134	550.00	0 fibres /			
Field Blank	BI	D	H644414					100 fields			
AM Type Legend											
<b>B</b> = Background <b>Co</b> = Co	ntrol	CI =	Clearance	BI= F	Field Blank	<b>Pe</b> =	Personal				
Comments/Recommendation	ons:										
All air monitoring results wer	e below tl	ne ex	posure stand	dard for a	sbestos fil	pers during	removal v	vorks <0.01			
f/ml											
NATA accredited laboratory	results ar	e pro	vided within	Append	ix 2.						
Disclaimer:											
The results within this report			the sampling	location	s specified	and their	analysis.	This report			
shall not be reproduced, exc	ept in full										
Prepared By			Approved	Ву	-						
Alestin	There										
Alex Tam	Denny Bolatti										
Licensed Asbestos Assessor	Principal Occupational Hygienist										
Senior Occupational Hygienia	st		Licensed Asbestos Assessor 001132								
07/06/2023 15/06/2023											





# **Appendix 1: Air Monitoring Locations**



Location: Northern beach south e Result: <0.01 f/ml Image Id: 230607-153650

Location: Field Blank Result: 0 fibres / 100 fields Image Id: 230607-155033







### How to Contact Us

Mail	Trinitas Group
	PO Box 1376 Parramatta NSW 2124
Email	admin@trinitasgroup.com.au
Address	Level 3, 24 Hunter Street, Parramatta NSW 2150
Website	www.trinitasgroup.com.au
Telephone	1800 4 TRINITAS
Facsimile	02 8016 0875

### **Trinitas Group Pty Ltd**

ABN 12 161 759 708

Disclaimer: This report is prepared for the use of the recipient for the purpose of risk evaluation, risk improvement and or loss control. It is based upon prevailing conditions at the time of inspection, our observations and information provided by the client contact/s at the site. No responsibility is accepted, and liability disclaimed for the use of this report for any other purpose, or by any third party, nor does it imply that no other hazardous







Appendix 2: Laboratory Analysis Results







# Certificate of Analysis

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



**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:	- RESULTS/SRAs
Report	998302-AFA
Project Name	LITTLE BAY BEACH
Received Date	Jun 07, 2023
Date Reported	Jun 13, 2023

### **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.



# Project NameLITTLE BAY BEACHProject IDJun 07, 2023Date SampledJun 07, 2023Report998302-AFA

Eurofins Sample No.	Client Sample ID	Location	Fibres/100 fields
23-Jn0027866	DH644374	SOUTHERN BEACH SOUTH END	0/100
23-Jn0027867	DH644414	BLANK	0/100
23-Jn0027868	DH644422	NORTHERN BEACH SOUTH END	0/100
23-Jn0027869	DH644424	SOUTHERN BEACH NORTH END	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 SiteExtractedSydneyJun 13, 2023

Holding Time 3 Indefinite

Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521									Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	ent Testing NZ Lto		
Melbourne         Geelong         Syd           6 Monterey Road         19/8 Lewalan Street         179           Dandenong South         Grovedale         Girra           VIC 3175         VIC 3216         NSV           Tel: +61 3 8564 5000         Tel: +61 3 8564 5000         Tel:				n Mitchell Murarrie Mayfield West NSW 2		1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261	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 4551 IANZ# 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Tel: +64 3 343 520 IANZ# 1290				
	mpany Name: dress:	Trinitas Gro Level 3, 24 Parramatta NSW 2150	up Pty Ltd Hunter Street	t				Phone: 02	98302 2 8810 4445 2 8016 0875		Received: Due: Priority: Contact Name:	Jun 7, 2023 5:02 P Jun 8, 2023 1 Day - RESULTS/SRAs	М
Pro	ject Name:	LITTLE BAY	/ BEACH								Eurofins Analytical	Services Manager	Bonnie Pu
Sample Detail					Asbestos (amount of fibres in air)								
Sydney Laboratory - NATA # 1261 Site # 18217					Х								
External Laboratory													
No	Sample ID	Sample Date	Time	Matri	x LAB	U							
1	DH644374	Jun 07, 2023	3:26PM	Air	S23-Jn00		х						
2	DH644414	Jun 07, 2023		Air	S23-Jn00		Х						
	DH644422	Jun 07, 2023	3:37PM	Air	S23-Jn00		Х						
	DH644424	Jun 07, 2023	3:33PM	Air	S23-Jn00	27869	Х						
Test	Counts						4						



### Internal Quality Control Review and Glossary General

- 1. 2. 3.
- CC 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. This report replaces any interim results previously issued. 4. 5.

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 F/mL	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)
g, kg	Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m)
g/kg L, mL	Concentration in grams per kilogram Volume, e.g. of air as measured in AFM ( <b>V = r x t</b> )
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:	$C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{t}\right)$
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 ( <b>P</b> <sub>A</sub> ).
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.
•	S) Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w). Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
Chrysotile 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.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
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 UMF	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. 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.
WADOH	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:

Sayeed Abu

Senior Analyst-Asbestos

Glenn Jackson Managing Director

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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