

31 January 2023

Randwick City Council 30 Frances Street Randwick NSW 2031

Attention: Joe Santangelo joe.santangelo@randwick.nsw.gov.au

## **RE: Asbestos Air Monitoring Report**

Dear Joe Santangelo

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,

**Alex Tam** 

Licensed Asbestos Assessor 001241 Senior Occupational Hygienist 31/01/2023





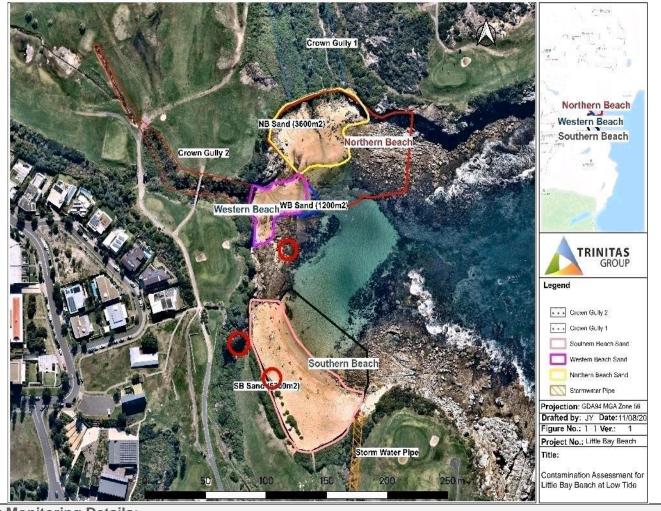








Requested by:	
Client Contact Name	Joe Santangelo
Client Contact Number	0436839760
Client Contact Email	joe.santangelo@randwick.nsw.gov.au
Site:	
Address	2 Coast Hospital Rd, Little Bay NSW 2036
Local Government Area	Randwick City Council
Site Boundary	
Air Monitoring Locations	



All Mollitoring Details.	
Date of Field Work:	31/01/2023
Start Time:	09:45
Trinitas Consultant:	Alex Tam Senior Occupational Hygienist
Sampling Type:	Asbestos
Temperature	23°C













Wind Speed	28km/h
Scope of Work:	Background air monitoring
B B - 41	

#### Methodology:

Asbestos fibre static air monitoring and analysis was conducted in accordance with Guidance Note on the Membrane Filter Method for the Estimation of Airborne Asbestos Fibres (NOHSC:3003: April 2005) and in-house procedures of NATA accredited laboratory for the estimation of airborne fibres.

The sample collection was performed using SKC portable sampling pumps fitted with sampling cassettes containing 25 mm membrane filters that were flow tested at the commencement and completion of sampling.

#### **Exposure Standard**

The Australian exposure standard for asbestos fibers is 0.1 fibres/ml of air and the action limit for asbestos fibres is 0.01 fibres/ml as per the NSW WHS Regulations 2017.

Sample Location / Person Name	АМ Туре	Sample ID	Average Flow Rate (L/Min)	Time On	Total Sampling Time (Min)	Total Volume (L)	Results
Beach entrance	В	DE776625	4.0	09:45	127	508.00	<0.01 f/ml
Southern beach north end	В	DE776590	4.0	09:49	126	504.00	<0.01 f/ml
Southern beach north end	В	DE776589	4.0	09:53	125	500.00	<0.01 f/ml
Field blank	BI	DE776690					0 fibres / 100 fields

#### **AM Type Legend**

**B**= Background Co= Control **CI** = Clearance BI= Field Blank Pe= Personal

#### Comments/Recommendations:

All air monitoring results were below the exposure standard for asbestos fibers during removal works < 0.01

NATA accredited laboratory results are provided within Appendix 2.

#### Disclaimer:

The results within this report relate only to the sampling locations specified and their analysis. This report shall not be reproduced, except in full.

Prepared By

**Approved By** 

Alex Tam

Licensed Asbestos Assessor 001241 Senior Occupational Hygienist

31/01/2023

**Denny Bolatti** 

Principal Occupational Hygienist Licensed Asbestos Assessor 001132

02/02/2023











## **Appendix 1: Air Monitoring Locations**



Location: Beach entrance

Result: <0.01 f/ml

**Image Id:** 230131-094810



Location: Southern beach north end

Result: <0.01 f/ml

**Image Id:** 230131-095005



Location: Southern beach north end

Result: <0.01 f/ml

**Image Id:** 230131-095339



Location: Field blank
Result: 0 fibres / 100 fields
Image Id: 230131-110921















#### **How to Contact Us**

Mail Trinitas Group

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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

## **Environment Testing**

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



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: Denny Bolatti
Report 959475-AFA

Project Name LITTLE BAY BEACH

**Received Date** Jan 31, 2023 **Date Reported** Feb 01, 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 Name** 

LITTLE BAY BEACH

Project ID

Date Sampled Jan 31, 2023 Report 959475-AFA

Eurofins Sample No.	Client Sample ID	Location	Fibres/100 fields
23-Ja0047366	DE776589	SOUTHERN BEACH NORTH END	0/100
23-Ja0047367	DE776590	SOUTHERN BEACH NORTH END	0/100
23-Ja0047368	DE776625	BEACH ENTRANCE	0/100
23-Ja0047369	DE776690	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.

DescriptionTesting SiteExtractedHolding TimeAsbestos - LTM-ASB-8010SydneyJan 31, 2023Indefinite

Report Number: 959475-AFA



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

#### **Eurofins Environment Testing Australia Pty Ltd**

ABN: 50 005 085 521

Melbourne Geelong 6 Monterey Road 19/8 Lewalan Street Dandenong South Grovedale VIC 3175 VIC 3216 Tel: +61 3 8564 5000 Tel: +61 3 8564 5000

179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400 NATA# 1261 Site# 1254 NATA# 1261 Site# 1254 NATA# 1261 Site# 18217

Asbestos (amount of fibres in air)

Sydney

Canberra Unit 1.2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091

Brisbane Newcastle 1/21 Smallwood Place 4/52 Industrial Drive Murarrie QLD 4172 Tel: +61 7 3902 4600 Tel: +61 2 4968 8448 NATA# 1261 Site# 20794 NATA# 1261 Site# 25079

Mayfield East NSW 2304 PO Box 60 Wickham 2293 NZBN: 9429046024954

Auckland Christchurch 35 O'Rorke Road 43 Detroit Drive Penrose, Rolleston, Auckland 1061 Christchurch 7675 Tel: +64 9 526 45 51 Tel: 0800 856 450 IANZ# 1327 IANZ# 1290

**Company Name:** 

Address:

Trinitas Group Pty Ltd

Level 3, 24 Hunter Street Parramatta

NSW 2150

**Project Name:** LITTLE BAY BEACH

Order No.: Report #:

959475 02 8810 4445

Phone: 02 8016 0875 Fax:

Received: Jan 31, 2023 6:51 PM

Due: Feb 1, 2023 Priority: 1 Day **Contact Name:** Denny Bolatti

ABN: 91 05 0159 898

46-48 Banksia Road

Tel: +61 8 6253 4444

NATA# 2377 Site# 2370

Perth

Welshpool

WA 6106

**Eurofins Analytical Services Manager: Bonnie Pu** 

#### Sample Detail

Sydney Laboratory - NATA # 1261 Site # 18217					Χ	
External Laboratory						
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
1	DE776589	Jan 31, 2023	9:53AM	Air	S23-Ja0047366	Х
2	DE776590	Jan 31, 2023	9:49AM	Air	S23-Ja0047367	Х
3	DE776625	Jan 31, 2023	9:45AM	Air	S23-Ja0047368	Х
4	DE776690	Jan 31, 2023		Air	S23-Ja0047369	Х
Test Counts						4



#### Internal Quality Control Review and Glossary General

- QC data may be available on request. All soil results are reported on a dry basis, unless otherwise stated
- 3 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.
- 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

Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (% w/w) % w/w:

F/fld

Airborne fibre filter loading as Fibres (N) per Fields counted (n)
Airborne fibre reported concentration as Fibres per millillitre of air drawn over the sampler membrane (C) F/mL

Mass, e.g. of whole sample  $(\mathbf{M})$  or asbestos-containing find within the sample  $(\mathbf{m})$  Concentration in grams per kilogram g, kg

g/kg L. mL

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) L/min

Time (t), e.g. of air sample collection period min

Calculations

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

Asbestos Content (as asbestos):  $\% w/w = \frac{(m \times P_A)}{M}$ Weighted Average (of asbestos):  $\%_{WA} = \sum_{r} \frac{(m \times P_A)_x}{r}$ 

**Terms** 

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<sub>A</sub>). %asbestos

Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the ACM

NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.

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 AF

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 Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004. Amosite

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

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.

Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become FA

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.

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 K Factor

graticule area of the specific microscope used for the analysis (a).

Limit of Reporting. LOR

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 Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004. Organic

PCM Phase Contrast Microscopy. As used for Fibre Counting according to the MFM. ы м Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.

Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004. SMF

SRA Sample Receipt Advice

Date Reported: Feb 01, 2023

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).

Eurofins Environment Testing 179 Magowar Road, Girraween NSW, Australia, 2145

Page 5 of 6 Report Number: 959475-AFA



#### 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:

Chamath JHM Annakkage 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  $\underline{\text{click here.}}$ 

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Report Number: 959475-AFA