

Cover Report On

Soil Contamination

No 67 Carrington Street, Horseshoe Bend,

NSW

Prepared for

Hoover Group Pty Ltd

Prepared by

Salesh Prasad

Job No: 16271

May 2023

P.O.Box 131, Paterson NSW 2421

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Executive Summary

Positive Fix Pty Ltd was engaged by Hoover Group Pty Ltd to conduct a preliminary soil / site investigation to determine the presence of fill on the subject lot.

A site visit was conducted on, Tuesday, 18th of April 2023 to carry out site investigation and to collect soil samples. The site is currently vacant. Fieldwork was undertaken to obtain soil samples for laboratory testing to determine if the material used as fill contained any asbestos.

Four samples were collected for the site, and the depth of the boreholes varied from 0.5mbgl to 1.5mbgl

The samples were tested by NATA Accredited Laboratory, Eurofins.

Findings of the Investigation and Conclusion

Based on the visual inspection of the subject lot and adjourning lots it is concluded that the site does not contain any fill material and any excavation carried out will be classified as a Virgin Earth Natural Material, (VENM).

The soil analysis results indicated the following:

- No asbestos detected at the reporting limit of 0.001% w/w
- Organic fiber detected
- No trace asbestos detected

From the findings of the investigation, Positive Fix Pty Ltd is satisfied that the site does not contain any contaminated material and any excavation carried out from the site will be VENM.

Please feel free to contact the undersigned if you have any questions

Yours faithfully,

A

Salesh Prasad (BEng, MIE Aust, CPEng #2272843, RPEQ # 17847, Civil/Mech) Asset Engineer Positive Fix Pty Ltd

<u>Appendix</u>



Certificate of Analysis

Environment Testing

Positive Fix Unit 47-48, 8 Concord Street BOOLAROO NSW 2284



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:	Salesh Prasad
Report	981631-AID
Project Name	67 CARRIGNTON STREET HORSESHOE BENS NSW
Project ID	16271
Received Date	Apr 18, 2023
Date Reported	Apr 27, 2023
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	67 CARRIGNTON STREET HORSESHOE BENS NSW
Project ID	16271
Date Sampled	Apr 17, 2023
Report	981631-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result		
S01	23-Ap0035297	Apr 17, 2023	Approximate Sample 180g Sample consisted of: Brown fine-grained clayey soil, coal, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.		
S02	23-Ap0035298	Apr 17, 2023	Approximate Sample 201g Sample consisted of: Brown fine-grained clayey soil, brick, coal and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.		
S03	23-Ap0035299	Apr 17, 2023	Approximate Sample 360g Sample consisted of: Brown fine-grained clayey soil, coal, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.		
S04	23-Ap0035300	Apr 17, 2023	Approximate Sample 335g Sample consisted of: Brown fine-grained clayey soil, coal, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. 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

Asbestos - LTM-ASB-8020

Testing SiteExtractedSydneyApr 18, 2023

Holding Time 3 Indefinite

		C!	Eurofins Environment Testing Australia Pty Ltd								Eurofins Environment Testing NZ Ltd	
eurofins		rins	Melbourne 6 Monterey Road Dandenong South	Geelong 19/8 Lewa Grovedale	lan Street 179 Mag Girrawee	owar Road	Canberra Unit 1,2 Dacre Street Mitchell	Brisbane et 1/21 Smallwood Place Murarrie	Newcastle 1/2 Frost Drive Mayfield West NSW 2304	Perth 46-48 Banksia Road Welshpool	- Auckland 35 O'Rorke Road Penrose,	4 Christchurch 43 Detroit Drive Rolleston,
web: v email:	vww.eurofins.com.au EnviroSales@eurofins	.com	VIC 3175 Tel: +61 3 8564 50 NATA# 1261 Site#	VIC 3216 00 Tel: +61 3 1254 NATA# 12	NSW 21- 8564 5000 Tel: +61 61 Site# 25403 NATA# 1	45 2 9900 840 261 Site#	ACT 2911 00 Tel: +61 2 6113 8091 18217 NATA# 1261 Site# 25	QLD 4172 Tel: +61 7 3902 4600 466 NATA# 1261 Site# 2079	Tel: +61 2 4968 8448 NATA# 1261 94 Site# 25079 & 25289	WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	Auckland 1061 Tel: +64 9 526 45 51 IANZ# 1327	Christchurch 7675 Tel: 0800 856 450 IANZ# 1290
Co Ao	ompany Name: Idress:	Positive Fix Unit 47-48, 8 BOOLAROO NSW 2284	8 Concord Stree	et			Order No.: 16 Report #: 98 Phone: 02 Fax: 02	6271 31631 2 4954 9033 2 4959 8802		Received: Due: Priority: Contact Name:	Apr 18, 2023 1:50 Apr 26, 2023 5 Day Salesh Prasad	PM
Pr Pr	oject Name: oject ID:	67 CARRIG 16271	NTON STREET	T HORSESHO	DE BENS NSW				E	urofins Analytical Ser	vices Manager : Ai	ndrew Black
Sample Detail					Asbestos - AS4964							
Sydney Laboratory - NATA # 1261 Site # 18217						X						
Exte	Sample ID	Sample Date	Sampling	Matrix								
	Campie ib	oumpie Dute	Time	Matrix								
1	S01	Apr 17, 2023	S	oil	N23-Ap0035297	X						
2	<u>S02</u>	Apr 17, 2023	S	oil	N23-Ap0035298	X						
3	503	Apr 17, 2023	S		N23-Ap0035299	X						
4	1004	Apf 17, 2023	5		1N23-Ap0035300	4						
Tes	Counts					4						



Internal Quality Control Review and Glossary General

- 1. 2. 3.
- AC 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.

CalculationsAirborne Fibre Concentration: $C = \left(\frac{d}{n}\right) \times \left(\frac{n}{r}\right) \times \left(\frac{1}{r}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right)$ Asbestos Content (as asbestos): $\psi_{w/w} = \frac{(m \times P_A)}{M}$ Weighted Average (of asbestos): $\psi_{w/x} = \sum^{(m \times P_A)x}{x}$ Termssasumed to be 15% in accordance with WA DOH Appendix 2 (P_A).ACMAsbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonde NEFPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.AFAsbestos Fines. Asbestos containing in thereials as used to be 15% in accordance with WA DOH Appendix 2 (P_A).AFMAsbestos Fines. Asbestos containation within a soli sample, as defined by WA DOH. Includes loose fibre bu material such as asbestos containing thereials. Asbestos contained within 0.AFMAirborne Fibre Monitoring, e.g. by the MFM.AFMAirborne Fibre Monitoring, e.g. by the MFM.Asbestos Content (as asbestos)Total % wi wasbestos content in asbestos-containing finds in a soil sample (% w/w).ChrysotileChrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in acc CoccCoccChain of Custody.Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in DryDispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.FAFibrous Asbestos. Absestos containing material that was previous on fibre and in a soverey degraded condition. Fo generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly disting	
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	asbestos content with a propensity to become or the purposes of the NEPM and WA DOH, FA guish 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 Chryst	otile, Amosite (Grunerite) or Crocidolite asbestos.
Friable Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes outside of the laboratory's remit to assess degree of friability.	is of the NEPM, this includes both AF and FA. It is
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 raticule area of the specific microscope used for the analysis (a).	ng the sample (A) and the projected eyepiece
LOR Limit of Reporting.	
MFM (also NOHSC:3003) Membrane Filter Method. As described by the Australian Government National Occupational Health and Safet Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition [NOHSC:3003(2005)].	ety Commission, Guidance Note on the Membrane
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 accordan	nce 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	e 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 Satety Executive, Health and Safety Guidance, publication.	
UMP Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally ident May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.	ntified by PLM with DS according the AS 4964-2004
WA DUH Reterence document tor the NEPM. Government of Western Australia, Guidelines for the Assessment, Remed Contaminated Sites in Western Australia (updated 2021), including Appendix Four: Laboratory analysis	<i>n</i>
Weighted Average Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sar	diation and Management of Asbestos-



Comments

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

Asbestos Counter/Identifier:

Chamath JHM Annakkage

Authorised by:

Sayeed Abu

Senior Analyst-Asbestos

Senior Analyst-Asbestos

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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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