Appendix H – Register of Asbestos Materials Coffey Environments



Register of Asbestos Materials Report Caritas/ Q'Brien Project Chr Forbes St and Burton St DARUNGHURSTINSW 2010

Prepared for:

St Vincents Hospital Sydney Ltd 406 Victoria Street Darlinghurst NSW 2010

Report Date: 23.8.06 Project Reference: ENVISYDN00113AA

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TABLE OF CONTENTS

EXE	CUT	IVE SUMMARY	1
1	INT	RODUCTION	1
	1.1	Background	1
	1.2	Scope	1
2	ME	THODOLOGY	2
	2.1	Asbestos Fibre Identification	3
3	RE	SULTS	4
	3.1	Asbestos Materials Register	4
4	GL	DSSARY	7
5	RE(COMMENDATIONS	9
	5.1	Asbestos Materials Identified 5.1.1 Frtable & Bonded Asbestos	9 9
		5.1.2 Control Measures	9
6	BIB	LIOGRAPHY	10
7	LIM	ITATIONS	11

LIST OF ATTACHMENTS

Figures

Figure 1:

Caritas Building Location Plan

Photographs

Photograph 1:	Lagged Pipes, Basement Plant Room, Outpatients Building
Photograph 2:	Electrical switchboard backing, Plant Room, Outpatients Buiding
Photograph 3:	Storage Container, Basement Plant Room, Outpatients Building
Photograph 4:	Veranda Ceiling, Outpatients Buliding
Photograph 5:	Cement sheeting on external wall Fascia, Courtyard, Outpatients Building
Photograph 6:	Ceiling of Toilet, Ground Floor, Outpatients Building
Photograph 7:	Fibrocement sheeting, Eaves, Outpatients Building
Photograph 8:	Sprayed insulating material, second floor veranda ceiling, Inpatients Building
Photograph 9:	Lagged pipes, basement service tunnels, Plant Pump Room, Inpatients Building

Appendices

Appendix A	Legislative Requirements and Additional Information
Appendix B	Asbestos Maintenance Log
Appendix C	Certificate(s) of Analysis

EXECUTIVE SUMMARY

Asbestos Materials Report

Caritas, Corner Forbes Street and Burton Street, Darlinghurst NSW

Coffey Environments conducted an Asbestos Materials site investigation of Caritas site Darlinghurst located on the corner of Forbes Street and Burton Street, Sydney. The survey was undertaken in August 2006. The purpose of the survey is to undertake a compliance audit to assess potential asbestos containing materials at the site.

State legislation and guidance requires that the register be used by property owners, employers, controllers of premises and other interested parties, such as contractors, as part of an overall asbestos management plan designed to control the risks of exposure to asbestos fibres.

Asbestos containing materials identified in the assessment include:

- Lagged pipes located in the Basement Plant Room, Basement toilet and at numerous locations through the sub-floor of the Outpatient Building;
- Lagged pipes located in a basement service tunnels/plant pump room of the Inpatient Building.
- Switchboard Backing (Basement Plant Room) Outpatient Building;
- A storage container (basement kiln room) Outpetient Building,
- Fibrocement sheeting in the ceiling of a veranda, ceiling of a toilet, a second floor eave and external wall/ fascia of a courtyard in the Outpatient Building;
- Spray insulating material on the second floor veranda celling of the Inpatient Building;
- Spray material on timber beams in ceiling cavity of the Inpatient Bullding;
- A paint substance/sealant on underside of the original metal deck roof within celling cavity, inpatient, Building; and,
- Insulation and asbestos lagged pipes in ceiling space, Inpatient Building.

Asbestos containing materials were also registered in lagged pipes in a service duct, north side of stairs between first and second floors and in lagged pipe and asbestos cement sheeting in the west wall of a store outside switch room ground floor.

Attention is drawn to the sprayed insulating material on the second floor veranda ceiling of the inpatients building which is friable and assumed to contain asbestos. Not all sprayed insulating material contains asbestos. Coffey recommend the material be sampled and analysed for asbestos libres. The building material should be managed as an asbestos containing material until sampling and analysis is undertaken.

Other situations and control strategies are detailed in the main report.

Carltas, Corner Forbes Street and Burton Street, Darlinghurst NSW

1 INTRODUCTION

Coffey Environments was commissioned by St Vincents Hospital Sydney Limited to conduct an Asbestos Building Materials Compliance Survey ('The Survey') of Caritas site Darlinghurst located on the corner of Forbes Street and Burton Street, SYDNEY. The survey was undertaken in August 2006. The work was undertaken concurrently with a Phase 1 Contamination and Geotechnical Assessment.

The assessment was conducted on the basis of the condition of the materials at the time of inspection and the future anticipated activities at the site. The scope of this investigation did not allow intrusive sampling techniques to be undertaken, and consequently this report is not to be used as a reference document for the purposes of demolition.

The purpose of the survey is to undertake a compliance audit to assess potential asbestos containing materials at the site.

The work was undertaken in accordance with a Coffey Environments proposal of 26 July 2006 and St Vincents Hospital Sydney Limited commission of August 2006.

1.1 Background

Previous assessments of the Caritas site have been undertaken for St Vincent's Hospital and the results are reported in:

- Asbestos Management Plan, St Vincents Hospital, Victoria Street, Darlinghurst, New Environment, August 2003;
- Inspection and Assessment of Asbestos Insulation Material, Roof of Carita's Inpatient Building, Cm Forbes St and Burton St, Johnston Environmental Technology (JET) Pty Limited, June 2003; and,
- St Vincents Hospital Asbestos Register, Department of Health, Amdel, November 1985.

1.2 Scope

The scope of work required Coffey Environments to:

- Mobilise a technician/consultant to and from the sile;
- Lialse with personnel and collect data on the history, use and function of the site;
- Conduct an Asbestos Matenals Survey of the site;

Collect samples of suspect asbestos material (where accessible) and submit samples for laboratory analysis.
 Note: Only 'typical' suspected occurrences are to be collected and sampled (e.g. one in every same fire door / gasket will be analysed);

- Document the details of materials identified including photographs;
- Record, collate and report the findings; and,
- Deliver one bound report and register of Asbestos Materials to the client.

Caritas, Corner Forbes Street and Burton Street, Darlinghurst NSW

2 METHODOLOGY

Asbestos surveys are undertaken considering a risk management approach, in accordance with best practice and recent State Government Legislation. An Occupational Health and Safety and Environmental risk assessment was conducted based on the condition of building materials identified during the survey and prioritised through Action Classifications, listed below.

The assessment involved the Investigation for the presence of asbestos materials and information was collected from the owners/occupiers/tenants of the site on relevant issues pertaining to the site. Based on the all available data and the status of the Site at the time of inspection, where items suspected of containing asbestos were identified, visual and/or analytical characterisation (where required) was performed and reported in this Asbestos Materials Register.

Only 'typical' suspected asbestos material occurrences are inspected and sampled. Sampling is undertaken on a representative basis, for example, the Inspection of one fire door of the same type within the same building is undertaken (i.e. not every 'matching' fire door is examined), unless specifically instructed. Sample collection was performed in a non-destructive and non-invasive.

Asbestos material surveys are restricted to areas that are reasonably accessible during the survey, with respect to the following:

- Without contravention of relevant statutory requirements or codes of practice;
- without demolition or damage to finishes and structure; and
- c) excluding plant and equipment that was 'in service' and operational.

Where the Surveyor encounters access restrictions during the survey, these situations are documented and reported.

No assessment can be regarded as absolute. Future demolition or refurbishment of structures may reveal materials concealed during the assessment, therefore not accessible at the time of the Survey.

As detailed above, an assessment of the resultant risks has been prioritised through the use of following Action Classifications (i.e. Action 1 – Action 4). These action classifications apply to asbestos materials identified during the survey and are detailed within this report

Action 1 (A1) Restrict access and target for imminent removal

Unacceptable risk due to likely exposure and/or environmental damage. As a guide, the material conforms to one or more of the points listed below:

- Friable or poorly bonded to substrate, located in accessible areas;
- Severely water damaged, or unstable;
- Further damage or deterioration likely;
- Frlable asbestos material located in air conditioning ducting;
- Asbestos debris in reasonably accessible areas; and,
- Reasonably accessible stored asbestos material.

Action 2 (A2) Restrict access or enclose, encapsulate or seal

Elevated risk due to likely exposure and/or environmental damage. As a guide, the material conforms to one or more of the points listed below:

- High removal risks or not feasible;
- Complete enclosure achievable;
- Friable or poorly bonded to substrate, with bonding achievable;
- Possibility of disturbance through contact, and,
- Possibility of deterioration caused by weathering.

Caritas, Comer Forbes Street and Burton Street, Darlinghurst NSW

Action 3 (A3) Remove during maintenance or refurbishment

Possibility of an elevated risk due to potential exposure from the ongoing degradation of the material, or potential environmental damage. As a guide, the material conforms to one or more of the points listed below:

- Asbestos debris in rarely accessed areas;
- Disturbance or damage unlikely other than during maintenance or service;
- Readily visible for further assessment; and,
- Asbestos friction materiais, gaskets and brake linings.

Action 4 (A4) No action required, unless disturbed

Elevated risk unlikely, unless conditions or site activities change. As a guide the material conforms to one, or more, of the points listed below:

- Firmly bonded to substrate and readily visible for inspection;
- Inaccessible and fully contained; and,
- Stable and damage unlikely.

2.1 Asbestos Fibre Identification

Samples taken from suspected asbestos containing materials are representative of the material sampled, individually identified, transported, analysed and reported in accordance with the National Occupational Health and Safety Commission (NOHSC) Guidelines, relevant Statutory Regulations, Codes of Practice and Coffey Environments Work Instructions. Laboratories undertaking analysis for Coffey are NATA certified for the analysis conducted. Additional sampling referred to in previous assessments (undertaken by Amdel) is not referenced with NATA accredited analysis, and sampling should therefore be considered indicative unless NATA accredited laboratory reports for analysis are available.

The presence of asbestos in a bulk sample is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques.

Where air monitoring is undertaken, the NIOSH Membrane Filter Method is used, determining the quantity of airborne fibres. Supplementary testing (where required) is conducted using Scanning Electron Microscopy (SEM) with Energy Dispersive X ray Analysis (EDAX) for the determination *I* characterisation of asbestos fibres.

Caritas, Comer Forbes Street and Burton Street, Darlinghurst NSW

3 RESULTS

3.1 Asbestos Materials Register

ASSESSMENT DATE: 3 August 2006

ADDRESS: Ceritas, Corner Forbes Street and Burton Street, Darlinghurst NSW

DESCRIPTION

Caritas consists of a three storey stone hospital, known as the outpatients building, a two storey brick building, known as the inpatients building, a two storey brick building with slate roof and detached garage, known as the anxiety building and a two storey brick cottage, used for parking and recreational purposes. The outpatient building is constructed around a central court yard. The buildings are identified in Figure 1.

The site is occupied and utilised on a full-time basis.

Internally, floor layouts vary relevant to department operations and activities. Concrete floors are covered with carpet and sheet vinyl or linoleum. Celling materials include fibre cement sheet, plasterboard and spray applied fire rating material direct to concrete soffits.

The above information is a brief site description only.

For Action Classification, Material Descriptors and Register Terminology Coding please refer to Section 4-GLOSSARY

This register is to be read in conjunction with the whole report. Additional information is attached (Appendix A)

Asbestos materials identified are listed in order of Action required.

Cartlas, Corner Forbes Street and Burkon Street, Dartinghurst NSW

Assessment by:	Martia Bowren	Date of inspection:	3 August 2006		August 2007
Site Contacts:	Don Day and Peter Davies	Site Location:	Caritas, Corner Forbas Street	er Forbes Street and Burton Street, Dartingtrurst NSW	

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		Pipe									
Comments		Pipes removed in area where extend beneath subficor. Pipe leading to area sampled.									
Action	2	14	N.	A3	A1	¢3	X3	A3	Å3	Å3	A3
Risk	z	(1	X	2	2	2	2	Z	Σ.	S.	щ.
Labelied	z	- 4	z	z	z	z	Z	z	z	z	z
Activity / Accessible	1	- 28	e.	-		Σ	Σ	Σ	<u>.</u>	- 4	1
Friability	~	- 34	(iii)	z	∑Z	z	z	z	~	z	(644)
Sealed	~	23	(\mathbf{x}_{i})	: z :	2π	\sim	æ.,	- 20	. 	\sim	z
Condition	ġ	18	Ø	ø	C	ø	ø	ø	G	ø	n.
Location	Basement Plant Room, Outpatients and Inpatients Building	Ptent room (previously extending extending through subfloor area), Outpatients Building	Numerous locations through sub floor, Outpatient's building	Basement Plant Room, Outpatients Building	Basement Kiln Room, Outpatients Building	Veranda, Outpatients Building,	Ground Courtyard, Outpatients Building	Totiot, Outpatients Building	Basement Tollet, Outpatients Building	Eave, Outpatients Building	Celling Cavity, Inpatients Building
Description	sadel politeri	Lagged Pipes	Lagged pipes and debris.	Switchboard backing	Storage Container	Fibro-cement sheeting, ceiling	Cement sheeting on external walk Fascia.	Celling	Lagged Pipes near cellings	Fibro-cement sheating	Spray material on timber beams
Photo No.	· .	ž	ž	19	65	. +	10) (1)	ø	Ŵ	1	M
Lab Results	B	QVN	Ю	Suspect Asbestos	Suspect Asbestos	Suspect Asbestos	CH	Suspect Asbestos	ъ	Suspect Asbestos	CR
Sample No.	Yesu	MPL.006 (ES008)	Yas''	Visual	Visual	Visual	MPL 009 (ES009)	Visual	Yes**	Visual	Yes"

Ref: ENVISTENDED AA JUI

Page 5 of 11

Caritas, Corner Forbes Street and Burton Street, Darlinghurst NSW

Comments		Not all sprayed insulating material contains asbestos. Coffey moommend the material be sampled and analysed for asbestos fibres. The building material be managed as an asbestor containing material until sampling and analysis is undertaken,		Loase fragments indicated to have been removed in 1987, however no clearance certificate available.				JET 2003 indicates material is safety contained.
Action	2		- W.	R	10	A3	A3	N3
Risk	1	*	- 25	N	99	W	×	N
Labelled	z	Z	- (č	Z	6	z	z	z
Activity / Accessible	4	N	1	j.	8	Щ	4	-
Friability	Z	IL.	- 0	μï.	30	Li,	(1947)	(947)
Sealed	z	z	- 200	8	13	7	>	z
Condition	Ø	Ň		8	4	9	Ø	σ
Location	Underside of original metal deck roof within celling cewity, Impetient Building.	Underside of second floor veranda celing, inpatient Building.	Storage Space, Inpatient Building	Basement Service turnels (adjacent to plant room). Pipes are metal clad. Inpatients Building.	Basement Plant Room, Impatients Building	Service Duct, North side of stains between first and 2 rd floors.	West wall of Store outside switch room, Ground Floor.	Ceiling Space, Inpatient Building
Description	Paint substance/ Sealant	Sprayed Insulating Meterlet	Lagged Pipes	Lagged Pipes	Boller Gasket	Lagged Pipe	Canvas lagged pipe and AC sheeting	Insulation and asbestos lagged pipes
Photo No.	Ň	đ	NA	đi	¥	ž	٩N	٧N
Lab Results	Suspect Ashestos	Suspect Astreatos	OWN	Ð	NAD	Suspect Asbestos	Suspect Asbestos	сĸ
Sample No.	NAM	Visual	(ES007)	Yes"*	MPL.008 (ES008)	Visual	Visual ⁿ	Ye8*n

Material previously sampled by Armeri Labor

Building material visually assessed or sampled material identified by New Environment, 2003, does not specifically correlate to photograph identified.

** Building material indicated to be present by Cantas personnel, not visually identified during the site inspection.

Ref ENVISYDMENDARY (194

4 GLOSSARY

The following terminology is used within the register to describe the materials identified:

Condition

and set of	
Good	The material is in sound condition with none to very minor damage or deterioration.
Average	The material is generally in acund condition, with some areas of damage or deterioration.
Poor	The material is extensively damaged and/or deteriorated.
d	
Yes	The material, and asbestos fibres are fully coated, sealed or enclosed
Na	The material is only partially sealed, coated or enclosed or asbestos fibres are not fully sealed.
	Average Poor ed Yes

Friability

a a subset	annay	
F	Friablo	This material, when dry, is easily crumbled, pulverised or reduced to powder by hand pressure e.g.: pipe lagging/ insulation. Such materials release fibres more readily than bonded products.
в	Bonded	Asbestos fibres are bound within the matrix of the material and therefors are not triable, i.e. asbestos cement sheet or vinyl floor tiles. Such materials do not readily release fibres unless subject to action such as abrading or breakage.
E	Exposed Fibres	This is a bonded material which has visible exposed fibres due to damage or deterioration of the material matrix. Fibres may be released from the damaged area under less action then if completely bonded.

Labelled

Y	Yes	The asbestos situation is labelled so as to be noticeable from normal approaches
N	No	The situation is not labelled as above

Activity

L	Low	Very little or no activity with the potential to disturb the material. Monthly occupancy or less, or inaccessible due to height or enclosure.
M	Moderate	Moderate activity with the potential to disturb the material. Weekly access / occupancy.
н	High	Regular activity with the potential to disturb the material. Daily access / occupancy

Risk

CLOPH.	n	99
L.	Low	Poses a negligible or low risk to occupants of the area due to the material being one which doesn't readily release fibres unless seriously disturbed. Usually applies to bonded products in at least average condition, or materials with no or low accessibility.
м	Medium	Moderate risk due to the material status and/or activity in the area. Usually applies to bonded materials in a state of minor deterioration and in moderate to high activity levels, or accessible finable materials in good condition.
н	High	There is a short term exposure risk to anyone entering the area. Usually a friable or poorly bonded meterial in an average or poor condition in accessible areas. Also relates to friable material in air plenums with no air monitoring regime in place.
E	Extreme	There is an immediate exposure risk to anyone entering the area due to friable material which has already been disturbed. Immediate action is required to restrict access and stop the spread of fibres as well as plan for decontamination and remedial works. Such situations are rare and would not normally be reported within the register as the client would be advised of the urgancy at the time of the survey and control measures applied before the development of the register.

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		Restrict access and remove
A1	Action 1	As a guide, the material conforms to one, or more, of the following: Friable or poorly bonded to substrate, located in accessible areas Severely water damaged, or unstable Further damage or deterioration likely Friable asbestos material located in air conditioning ducting Asbestos debris and stored asbestos in reasonably accessible areas
		Enclose, encapsulate or seal
A2	Action 2	As a guide, the material conforms to drie, or more, of the following: High removal risks or not feasible Complete enclosure achievable Friable or poorty bonded to substrate, with bonding achievable Possibility of disturbance through contact Possibility of disturbance through contact
		Remove during refurbishment or maintenance
A3	Action 3	As a guide, the material conforms to one, or more, of the following: Asbestos debris or stored material in rarely accessed areas Further disturbance or damage unlikely other than during maintenance or service Readily visible for further assessment Asbestos friction materials, gaskets and brake linings
		No remedial action
A 4	Action 4	As a guide, the material conforms to one, or more, of the following: Firmly bonded to substrate and readily visible for inspection inaccessible and fully contained Stable and damage unlikely

Material Descriptors

CH	Chrysotile Asbestos	AM	Amosite Astestos
CR	Crocidolite Asbestos	NAD	No Asbestos Detected
NAD+	No Asbestos Detected (due to the homogenous nature of the vinyl floo the accuracy of all such results cann	r tiles, false neg	entration of asbestos fibres and the non- jative results may be obtained. There fore id).

Acronyms

NOHSC National Occupational Health and Safety Commission

NATA National Association of Testing Authorities, Australia

- A/C Air Conditioning
- F/C Fibre Cement
- PLM Polarised Light Microscopy
- SEM Scanning Electron Microscopy

EDAX Energy Dispersive X-ray Analysis

5 RECOMMENDATIONS

5.1 Asbestos Materials Identified

The recommendations, conclusions or stability of asbestos materials contained in this report shall not abrogate a person of their responsibility to work in accordance with Statutory Requirements, Codes of Practice, Guidelines, Material Safety Data Sheets, Work instructions or reasonable work practices.

5.1.1 Friable & Bonded Asbestos

Asbestos containing materials (ACM) are referred to as either friable or bonded. Friable asbestos is in the form of a powder, or can be crumbled, pulverized or reduced to powder by hand pressure when dry. *Friable asbestos* includes materials such as sprayed and thermal insulation, pipe lagging and millboard, and can release fibres with only minimal disturbance.

Bonded asbestos products are ones in which the asbestos fibres are bound within the matrix of the material. Bonded asbestos is difficult to damage or cause the release of fibres by hand and includes materials such as asbestos cement sheeting (fibre cement or fibro), vinyl floor files and zelemite electrical switchboards. However, bonded asbestos containing materials that have been subjected to weathering, physical damage, water damage, fire or other conditions may contain exposed fibres which could be released upon disturbance.

5.1.2 Control Measures

Friable ACM exhibits the greatest risk to human health as fibres are released upon minimal disturbance. As such removal and replacement would be the preferred option if such materials were found in accessible areas or air conditioning systems.

Alternatively removal and replacement may not be the preferred option for bonded ACM in a good and stable condition as the risk associated with removal could be high.

The selection of the most appropriate control measure should be determined from risk assessments and detailed knowledge of the workplace and activities. The following general principles may be applied:

- If the ACM is friable, in a poor/unstable condition and accessible with risk to health from exposure, immediate access restrictions should be applied and removal is required as soon as practicable using a licensed removalist;
- If the ACM is friable and accessible but in a stable condition, removal is preferred. However, if removal is not immediately practicable, short-term control measures (i.e. restrict access, sealing, enclosure etc) may be employed until removal can be facilitated;
- If the ACM is bonded and in a poor/unstable condition; minimising disturbance and removal or encapsulation may be appropriate controls;
- For bonded ACM's in a good and stable condition, ongoing maintenance and periodic inspection would be appropriate controls;
- Any remaining identified ACM's or presumptions should be appropriately labelled, where possible, and regularly
 inspected to ensure they are not deteriorating resulting in a potential risk to health; and,
- Prior to any demolition, partial demolition, renovation or refurblshment, asbestos containing materials likely to be disturbed by those works should be removed in accordance with the NOHSC Code of Practice for the Safe Removal of Asbestos 2rd Edition [NOHSC:2002 (2005)].

Further assessment of risk through airborne fibre monitoring can assist with decisions on the most appropriate, and urgency of, control measures.

Other control measures such as training and communication strategies, control of contractors and administrative procedures must be considered as part of the overall Asbestos Management Plan.

Coffey Environments Occupational Health and Safety Team is

able to assist with all aspects of Asbestos Risk Management

6 BIBLIOGRAPHY

- National Institute for Occupational Safety and Health [NIOSH (U.S.A.)], Manual of Analytical Methods, Elements by ICP, Method 7300, 4th Edition, Issue 2 1994
- National Occupational Health and Safety Commission (NOHSC), Approved Criteria for Classifying Hazardous Substances, 1008 - 2002
- National Occupational Health and Safety Commission (NOHSC), Code of Practice for the Management and Control of Asbeslos in Workplaces, 2018 – 2005
- National Occupational Health and Safety Commission (NOHSC), Code of Practice for the Safe Removal of Asbestos 2nd Edition, 2002 2005
- National Occupational Health and Safety Commission (NOHSC), Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition, 3003 - 2005

New South Wales Legislation

Occupational Health and Safety Act, 2000

Occupational Health and Safety Regulation, 2001

Occupational Health and Safety (Asbestos Removal Work) Regulation, 1995

Working with asbestos-cement (fibro) products, WorkCover of New South Wales.

7 LIMITATIONS

Coffey Environments has conducted work concerning the environmental status of the property which is the subject of this report, and has prepared this report on the basis of that assessment.

The work was conducted, and the report has been prepared, in response to specific instructions from the client to whom this report is addressed, within the time and budgetary requirements of the client, and in reliance on certain data and information made available to Coffey Environments. The analyses, evaluations, opinions and conclusions presented in this report are based on those instructions, requirements, data or information, and they could change if such instructions etc. are in fact inaccurate or incomplete.

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client instructions, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected. However there can be no guarantee that conditions at specific points not able to be inspected do not vary from the interpreted conditions based on the available observations/data.

In order to determine actual environmental conditions at specific intermediate points away from those observed/tested to date, those specific points would need to be inspected/tested.

It is also noted that sub-surface conditions can change with time, and the report is based on data that was gathered at the time of the report. Coffey Environments will not update the report and has not taken into account events occurring after the time its assessment was conducted.

This inspection and report does not include the following non accessible areas:

• Detached Garage of Anxiety Building.

Subsurface drains and pipes may be constructed of asbestos cament but this could not be assessed. Any subsurface pipes, particularly those constructed of fibro-cement or concrete, should be assumed to contain asbestos until otherwise assessed.

This report has been provided by Coffey Environments for the sole use of the client and only for the purpose for which it was prepared. Any representation contained in the report is made only for the client.

Compliance Survey

Asbestos Compliance Surveys are non-destructive and as such are not intended for use or referral for the purpose of demolition, refurbishment, renovations or structural alterations. In the event of future demolition, refurbishment, renovation or structural alterations further investigation, which may entail destructive testing, shall be required.

No inspection can be guaranteed to locate all asbestos in a specific location. The assessment cannot be regarded as absolute, without extensive invasion of structures. Future demolition and or renovation to site structures may expose situations, which were concealed or otherwise impractical to access during this assessment.

Coffey assessors take samples at any situations known, or suspected, to contain Asbestos. Where the analysis determines that No Asbestos is Detected (NAD) the samples are listed in the report to provide information for future assessments.

Where no samples are taken the situation is considered "asbestos free". This assessment is based on the knowledge and experience of Coffey Assessors, or on research conducted by Coffey Environments.

Representative sampling is defined as one like sample per consistent material type, situation or item. In these instances only one test sample will be collected for analytical confirmation and the results expressed as consistent and typical of the building.

Due to the very low concentration of asbestos fibres and the non-homogenous matrix of vinyl floor tiles, false negative results may be obtained. Therefore the accuracy of all results cannot be guaranteed.

Notably, with some asbestos containing bulk material it can be very difficult, or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

The analysis of many asbestos products used as a component of insulation materials, may be compromised in instances where the material has been heat affected, as heat may alter the morphology of the fibrous material.

The Client must not rely on an inspection or report as indicating that a site or a building is "asbestos free". All that the report can be relied upon to show is that no asbestos was found (or that only such asbestos was found as was reported to be found) in the course of the inspection. The findings of the report must be considered together with the specific scope and limitations of the type of inspection undertaken.

Coffey Environments Pty Ltd

Figures

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Asbestos Materials Report Caritas, Corner Forbes and Burton Street, Darlinghurst NSW



Figure 1: Building Location Plan

Photographs

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Asbestos Materials Report Caritas, Corner Forbes and Burton Street, Darlinghurst NSW

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Appendix A Legislative Requirements and Additional Information

Asbestos Materials Report Caritas, Corner Forbes and Burton Street, Darlinghurst NSW

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This document has been produced for information only and is under regular review due to frequent changes in legislation and guidance. It LEGISLATIVE REQUIREMENTS - ASBESTOS

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headings only and not, for instance, in relation to asbestos removal. It is the duty of emptoyers,	Illar with the latest applicable state legislation and guidance.
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STATE. Primary Asbestos Legislation	Ashestos Survey Requirements	Asbestos Resurvey Requirements	Reporting Requirements	Labelling/Signage Requirements	Other Requirements
WESTERN AUSTRALIA AUSTRALIA VIA Cocupational Safety and Health Act 1984 WA occupational Health and Safety Regulations 1996	Employer, main contractor, self- employed person or person having control of the workplace to ansure that presence and boothor of astressor at the workplace is identified. The process of identification and assessment of takes of identification and assessment of takes of Practice for the Management and Control of Astrestos in Workplaces (NO+ESC: 2016 (2005)).	Armuni review of register and management plan under NOHSC: 2018(2005), A Visual inspection of ACM should be undertation as part of any review	Under NOHSC 2018(2005); Maintain a register on the premisea which includes date of assessment, location & types of asbestos, analysis, risk assessments, competent presentwic, and datals of competent person who undertook this assessment. Datals of presumptions insole and likely astestos in inaccessible areas to be induded	Under NCHSSC 2016(2005); Warning signs & labels to be used in conjunction with the workplace register to warn people of the presence of ACM, Competent person to determine number and position of labels. Areas containing ACM to be signposted.	Health (Astrestors) Regulations 1992
ALISTINAL IAN CAPITAL TERITORY Cooperational Health and Sefery Act 1989 Dangerous Substanses Act 2004	Not legislated specifically. However compliance with amployers dufy under 1989 Act to ansure people are not apposed to risk is measured against relevant codes of practice i.e.: NOHSC 2018(2005): Identify ACM and create a register.	None stipulated in legislation, Annual review of register and mensionent plan under NotHSC 2016(2005), A visual inspection of ACM should be undertaken as pert of any review	None stipulated in logistiation. Under NOHSC:2018(2006); Maintain a register on the premises which includes date of assessment, location & typnis of astestos, analysts, risk assessments, campoint person who undarbook the assessment. Details of presumptions made and fixely astestos in inaccessible areas to be included	None stipulated in legislation. Linder NOHSC:2018(2006); Warming signs & labels to be used in conjunction with the workgines register to warm paopla of the presence of ACM. Compariant person to determine number and position of labels. Areas containing ACM to be signposted.	Flaguestory regime for management of asbestos is cummitly under review by the ACT Taseforce.
NEW SOUTH WALES Decapational Health and Salety Act 2000 Occupational Health and safety Regulation 2001	Controllar of work premises responsibility An astressors register for any place of work is to be recorded, prepared and mantamed.	Not specified in CHS Regulation. Under Mathonal Asthestos Code of Practica pv/CHSC: 2002 (1988)) the register shall be regularly updated. Re-inspections between 1 and 3 years depending on risk.	Astreatos register to contrain detaits of the type, location and condition astreatus matertals plus any action taken to control ACM plus relevant detaits.	Not specified in OHS Ragulation. Under Mattoral Asbesios Code of Practics (NOHSC: 2002 (1988)). All dentified asbestos in a building or other structure stroub be of other structure stroub be of baseled to that it is clearly visible to persons using the area, until it is finally removed.	Regulation states that controller of premisees must answer that risk assessment and controls to be in accordence with NOHSC:2002(1986). Current policy rehects observance of the most neoral publication in relation to working with astreates La. (NOHSC:2014(2008))

LEGISLATIVE REQUIREMENTS — ASBESTOS

This document has been produced for information only and is under regular review due to frequent changes in legislation and guidance. It contains information relating to the column headings only and not, for instance, in relation to asbestos removal. It is the duty of employers, premise owners and controllers of premises etc to ensure they are familiar with the latest applicable state legislation and guidance.

STATE. Asbes Primary Asbestos Legislation	QUEENSLAND Building Wuntgaaca Haalin & All work Selety Aus 1985 ngj stern Wuntgaaca Haalin & 31 Oct 2 Safety Rega 1987 dismarti	From 01.01.2008 or Must comply with the magement of immediately if nut heragements previously compliant (mmediately in cepeated drivin bened) and or leased	VICTOFILA Closuptier's re Occupational Health A Whether aste Sefety Act 2004 Health A Meether aste Safety (Astreation) Hisath and condition of A Safety (Astreation) Aliao to condi Regulations 2003 basis of the a disturbances	TASMANIA Reason Workplace Health & Reason Safety Act 1895. Then ca Workplace Health and potential Workplace Health and potential Safety Regulations 1998 fibres.
Asbestos Survey Requirements	Building Owner Responsibility. Mi workplaces built before 1990 require register of Astrestos Malerials' before 31 Oct 2004 or before being dismardiad, damotahed, sold or leased	Must comply with the Asbestos Management Code Monedialey If not compliant with Inneedialey If not compliant with repealed division of Regist or prior to ending aftered, dismanified, demolshed, sold or leased.	Occupiar's responsibility to determine whether astratios is present and if so danity the type, location, fraidily and condition of ACM. Also to conduct risk assessment on the basis of the above plus likely disturbances.	Reasonable steps to be taken to dantify the presence of any a80e800s. Then carry out a risk assessment on potential exposure to althome achestos fibres.
Asbastos Resurvey Requirements	Arrival Reinspection for Asbestos Materials * Cr earlier if the nature or location of the works in the vicinity of the esbestos materials changes.	Annual review of register & Management plan after 01.01.08 A visual inspection of ACM should be undertation as part of any review	Undertake review and revision of risk sesses sheaf when condition of asbestos changes, namedial work has been carried out of the assessment is no tonger valu. Maximum review timetrame is 5 years.	Regularly inspect any astreation identified to ensure that it does not deterional or constitute a health risk, and record the date and findings of each inspection in the registrat.
Reporting Requirements	Report must state the location, type and form of asbestos materials. Also whether the asbestos material is fritable or poorty bonded or in an unstantia condition. Plus any potential health risks to occupents of the building because of the presence of asbestos muterials.	Maintain a register on the premises which includes date of assessment, tocation & types of asbestos, analysis, risk assessments, control measures, and datats of competiant person who undertook the assessment. Defaits of presumptions meds and likely astreatos in inaccessible areas to be included.	Flaports must include the type, location, thability & condition of astressos, identification of maccessible areas and risk assessment including dates.	Maintain a register in relation to astreatos identified and findings of each inspection in the register and make the register available.
Labelling/Signage Requirements	All buildings with asbestos materials must have a notice in a prominent place in the building stating there is an satestos register and where it can be vewed.	Warming signs & labels to be used in conjunction with the workplace register to warm people of the presence of ACM. Competent person to determine number and person to determine Areas containing ACM to be signposted.	The regulations require that the presence and location of astractors is clearly identified, and that where practicable, the identification is by tabelling.	In any area building, structure or reline containing astrestos & regular maintenance or repair work is likely, provide and fix signs or labels to elert those persons of the location of the accesses and any precentions
Other Requirements	 Asbestos Materials defined as útsisfiert mermal or accustic transition contatiting asbestos in the '97 Rags. 	Devetop & implement an astrestos management plan.		

LEGISLATIVE REQUIREMENTS --- ASBESTOS

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STATE. Primary Asbustos Legislation	Asbestos Survey Requirements	Asbestos Resurvey Requirements	Reporting Requirements	Labelling/Signage Requirements	Other Requirements
SOUTH AUSTRALIA Occupational Haelth, Safety & Welfare Act 1986 OHSW Regulations 1986	Owner to take reasonable steps to don'try any asbestos mataled in 8 building and assess the associated risk.	Reguter inspections (at least amnually) by a competent person.	Reports must include the following: Assess diagree of stability, location, type & condition of astwatos. Steps that can be taken to restrict access & provent distarbance. The owner must supply the register gluss any alterations) to the occupier if not the same person.	Aubestos warming signs shall be afflued to or artiacem fo iclemified asbestos moterials. The signs shall conform to AS 1319 - 1904. Safety Signs for the Occupational Environment.	Approved Code of Practice for Aspestos Work (excluding Asbestos Removal) SA
NORTHERN TERRITORY Work Health Act & Regulations (Adopted NOHSIC Codes of Prectice)	Employer, main contractor, salf- employed person or person having control of the workplace to ensure that preserves and location of asbestics at the workplace is identified. The process of identification and assessment of take estimation for asbestics hazards are to be controlled in accordance with the Code of Practice for the Management and Control of Asbestics in Workplaces IN/OHSC: 2016 (2005)].	Amust review of register and management plan under NOHSC: 2018(2005). A visual inspection of ACM should be underfaken as part of any review	Under NOHSC 2018(2006): Maintain a register on the promises which includes date of assessment, location & types of astreatos, analysts, risk assessments, compolent person who undertate of competent person who undertate of competent person who undertate of competent person who undertate of massessment. Details of presumptions index and thatly asbestos in inaccessible areas to be included	Under NOHSC 2018(2005): Warning signs & labels to be used in conjunction with the workplace register to warm people of the presence of ACM. Competent person to determine number and position of tabels. Areas containing ACM to be signposted.	NCHSIC 2018(2016) adopted by NT as an Approved Code of Pradios (alse NCHSIC 2002 and 3003)

Appendix B Asbestos Maintenance Log

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Asbestos Materials Report Caritas, Corner Forbes and Burton Street, Darlinghurst NSW

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Scope / Location Carried out by Result/Comments Astrests Survey conducted Coffey Environments Register produced & delivered Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted Image: Survey conducted	Site:	Caritas, Corner Forbes and Burton Street, Darlinghi	urst NSW		
Astersions Survey conducted Coffey Environments Register producted & delivered Register survey conducted Register producted Register producted Register survey Register producted Register producted	Date	Scope / Location	Carried out by	Result/Comments	Entered by
	3 August 2006	Asbestos Survey conducted	Coffey Environments	Register produced & delivered	Coffey Environments
				r -	

Appendix C Certificate(s) of Analysis

Asbestos Materials Report Caritas, Corner Forbes and Burton Street, Darlinghurst NSW



Envirolab Services Pty Ltd ABN 37 112 535 645 54 Frenchs Rd Willoughby NSW 2058 ph 02 9958 5801 fax 02 9958 5803 email: thotaras@envirolabservices.com.au

CERTIFICATE OF ANALYSIS 6639

Client: Coffey Environment Sydney Level 18 Ottgroup Centre 2 Park St Sydney NSW 2000

Attention: Maria Edward

Sample log in details:

Your Reference: No. of samples: Date samples received: Date completed instructions received: Analysis Details:

ENVISYDN00113AA, Haz Mat Survey Caritas 4 Materials 1009/08 1009/08

Please refer to the following pages for results, methodology summary and quarky control data. Samples were analysed as received from the client. Results relate specifically to the samples as received. Note, even after disintegration it can be difficult to detect the presence of assestos in some asterios -containing bulk materials using PLM and dispersion staining. 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 intimutatly throughout the materials. Viny/asbestos floor tiles, some asbestos containing epoxy resins and some one samples are examples of these types of material, which are difficult to analyse.

Report Details:

 Date results requisited by:
 17/06/06

 Date of Preliminary Report
 Not fasued

 Insue Cate
 15/06/05

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 Accredited for compliance with SOIEC 17025.

 Tests not covered by NATA are denoted with ".

Results Approved By;

Koshnan Umm Chapter

Envirolati Reference: 6639 Revision Nor R 60



Page 1 of 3

Client Reference: ENVISYDN00113AA, Haz Mat Survey Caritas

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8834-1	E2006	ligitarous material	No appendix derected
6835-0	E3097	0.5g ñorous material	No subestos detected
6835-3	ES303	2.5g tile tragment	No asbestos detected
6835-4	ESOCY	0.3g biaster fragitterts	Chrysotile asbestoe detected

Envirolato Reference: 6839 Revision Noi R 00



Page 2 of 3

Client Reference: ENVISYDN00113AA, Haz Mat Survey Caritas

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Envirolati Reference: 6839 Revision No: R 00



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Option 2 - West Elevation (Bourke Street)

