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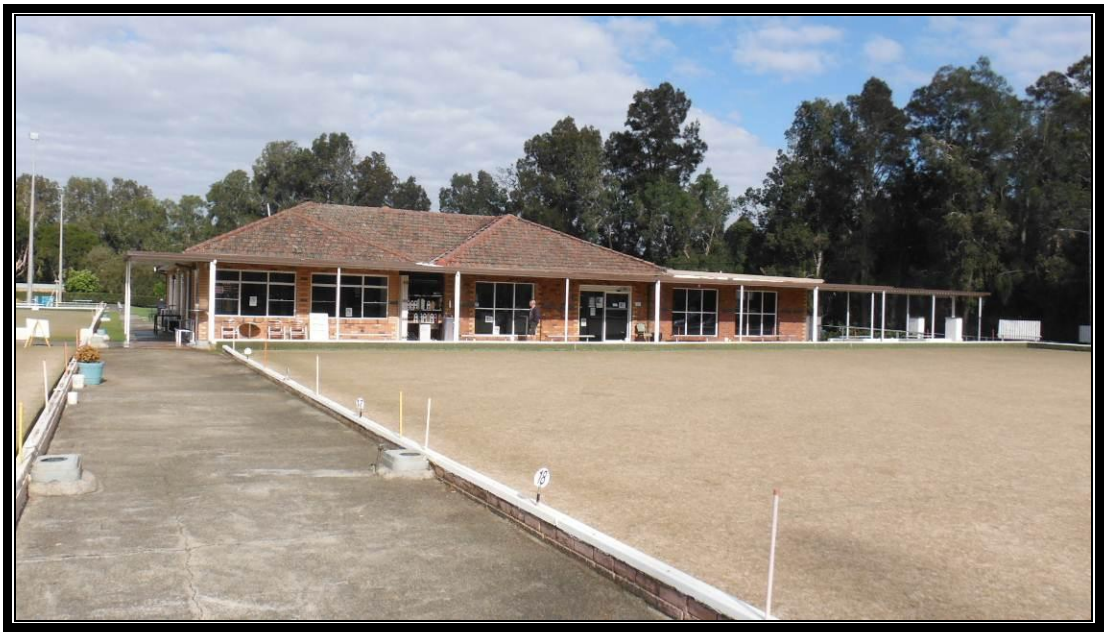
WARRINGAH COUNCIL

HAZARDOUS BUILDING MATERIALS SURVEY



NORTH MANLY BOWLING CLUB

KENTWELL ROAD, MANLY VALE NSW 2093

REFERENCE NO. S8654-BUI00137

NOVEMBER 2015

Copy: 2

Copies:
1. Site Copy
2. Warringah Council
3. Hibbs & Associates Pty Ltd.

FINAL REPORT

for

HAZARDOUS BUILDING MATERIALS SURVEY

NORTH MANLY BOWLING CLUB

KENTWELL ROAD

MANLY VALE NSW 2093

Prepared for

WARRINGAH COUNCIL

725 Pittwater Road
Dee Why NSW 2099

by

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Our Reference: S8654-BUI00137

November 2015

Prepared by: _____

Aklesh Chand
Hazardous Material Consultant

Reviewed by: _____

Robert Bittar
Occupational Hygienist

Date: 20 November 2015

NORTH MANLY BOWLING CLUB
HAZARDOUS BUILDING MATERIALS SURVEY

EXECUTIVE SUMMARY

This report presents the findings of a Hazardous Building Materials Survey and Qualitative Risk Assessment of the North Manly Bowling Club located at Kentwell Road, Manly Vale NSW 2093. The survey was authorised by Derek Batchelor, Facilities Manager of Warringah Council and was conducted by Hibbs & Associates Pty Ltd. The site inspection was carried out on 29 June 2015.

Overall Status

The overall status of each hazardous material type is outlined below.

Site Name	Asbestos (Friable)	Asbestos (Non-friable)	SMF	LBP	PCB
North Manly Bowling Club	Negativ	Positive	Assumed Positive	Positive	Negative

Remedial Works Required

No hazardous building materials requiring short to medium term remedial works were identified during the site inspection.

Summary of Findings and Risk Assessment

<u>Asbestos Materials</u>

The following asbestos containing materials were identified on this site:

- Flat asbestos cement sheeting
- Assumed asbestos electrical backing board

The asbestos containing materials were in good and stable condition. While they are maintained in this condition and remain undisturbed, they do not pose a measurable asbestos related health risk to the users of the site.

Synthetic Mineral Fibre Materials (SMF)

Minor sources of bonded synthetic mineral fibre containing materials are present within the building. These SMF materials have been installed in accordance with current industry practice and are in a good and stable condition and do not pose a significant health risk to the occupants in the building.

Lead Based Paint Systems

No deteriorating lead based paints were identified on the site. The lead based paint systems identified are in a stable condition. They do not present a significant health risk whilst they are maintained in good condition and remain undisturbed.

Polychlorinated Biphenyls (PCBs)

No electrical capacitors containing the class of compounds known as PCBs were identified in the fluorescent light fittings inspected.

Inaccessible Areas

The following table shows the details of areas that were not able to be accessed during the site inspection.

NORTH MANLY BOWLING CLUB **INACCESSIBLE AREAS**		
LOCATION	**MATERIAL**	**COMMENT**
External, Club, rear wall	Electrical cabinet may contain an asbestos electrical backing board	The electrical cabinet was locked with no key access. Inspect upon next scheduled maintenance

NORTH MANLY BOWLING CLUB
HAZARDOUS BUILDING MATERIALS SURVEY

TABLE OF CONTENTS

	PAGE
Executive Summary	3
1.0 Introduction	6
1.1 Consultant's Brief	6
1.2 Report Structure	6
2.0 Survey Methodology	7
2.1 General Methodology	7
2.2 Material Sample Identification	7
2.2.1 Asbestos Samples	7
2.2.2 Lead Based Paints	8
2.2.3 Polychlorinated Biphenyl's (PCBs)	9
2.3 Statement of Building Survey Limitations	10
3.0 Brief Description of the Site	12
3.1 Site Details	12
3.2 Site Description	12
3.3 Areas Not Accessible	13
4.0 Hazard Control Strategies and Recommendations	14
4.1 Asbestos Materials	14
4.1.1 Risk Assessment	14
4.1.2 Hazard Control Strategies and Management Options	14
4.1.3 Renovations / Demolition	14
4.2 Synthetic Mineral Fibre Materials	15
4.3 Lead Based Paint Systems	15
4.3.1 Risk Assessment	15
4.4 Polychlorinated Biphenyl Capacitors	15
Appendix 1: Hazardous Building Materials Register	16
Appendix 2: Photographs	18
Appendix 3: Asbestos Analysis Report	22

1.0 INTRODUCTION

This report presents the findings of a Hazardous Building Materials Survey and Qualitative Risk Assessment of the North Manly Bowling Club located at Kentwell Road, Manly Vale NSW 2093.

The survey was authorised by Derek Batchelor, Facilities Manager of Warringah Council and was conducted by Hibbs & Associates Pty Ltd. The site inspection was carried out on 29 June 2015.

1.1 Consultant's Brief

The aim of the commission was to:

- Conduct site inspections, investigations and sampling as required to all locations listed in the RFQ.
- Conduct site and Laboratory testing of samples as required to establish their nature.
- Inspect the items noted in the existing register and check the locations for any items that may have been overlooked and add these to the register. Update the register in the format required (provided by Council), completing the current condition, risk assessment management regime recommended etc. using defined notation and descriptions, and where necessary to properly identify the item including references to photographs.
- Inspect all buildings and structures specified (annexure B of RFQ) and create new records for those not currently listed in the hazmat register.
- Include illustrations where necessary to clearly define the location, extent and type of material
- Undertaking Risk Assessments
- Nominate a Scheme of Management

1.2 Report Structure

The hazard control strategies and recommendations are presented in Section 4.0.

A Hazardous Material Building Register in a Excel format detailing the location of the hazardous materials identified, the type and description of the hazardous material, priority rating and recommendations for the Scheme of Management is contained in Appendix 1.

Photographs are included in Appendix 2 and an asbestos sample analysis report is contained in Appendix 3.

2.0 SURVEY METHODOLOGY

2.1 General Methodology

An inspection of the building(s) was performed to establish the typical locations and applications in which Hazardous Building Materials have been used, for the purpose of preparing a qualitative risk assessment. For the purpose of this assessment, hazardous building materials include:

1. Asbestos containing materials.
2. Synthetic Mineral Fibre (SMF) materials.
3. Major lead based paint systems applied to the building.
4. Fluorescent light capacitor fittings containing polychlorinated biphenyls (PCB).

The scope of the survey was limited to a visual inspection of the accessible and representative construction materials, finishing materials and building services, and the collection of materials suspected of containing the hazardous materials listed above. Representative samples of suspected hazardous materials were collected where it was possible to do so without substantially damaging the decorative finishes, waterproofing membranes, equipment etc. No destructive sampling or damage to the existing finishes or services was performed to obtain samples or gain access to otherwise inaccessible areas. Equipment not associated with the building fabric and operational services was not included in the survey.

Due to the destructive nature of the sampling process, it is not possible to collect samples of all materials. Where it is not possible to collect a sample of material, the inspector has used their professional experience to make a judgement on the status of the material or the areas concerned. Where the inspector believes or suspects the material may contain asbestos, SMF or PCB this has been recorded in the survey report and these materials should be treated as a hazardous material. If work is to be performed on these materials, they should first be analysed to confirm their status.

An existing Hazardous Material Survey Report prepared by JTA Risk Management was reviewed in conjunction with the site inspection.

2.2 Material Sample Identification

2.2.1 Asbestos Samples

Any representative samples of materials suspected of containing asbestos collected were analysed for the presence of asbestos using Hibbs & Associates Pty Ltd Test Method No. 2. This method is based on:

(i) Australian Standard “AS4964-2004 Method for the qualitative identification of asbestos in bulk samples”; and

(i) Health and Safety Executive – UK, "Asbestos: The analysts' guide for sampling, analysis and clearance procedures, Appendix 2: Asbestos in bulk materials: Sampling and identification by polarised light microscopy (PLM), Publication No. HSG248".

The samples were examined by stereo microscopy. Fibrous materials identified under stereo microscopy were extracted and analysed by Polarised Light Microscopy supplemented with Dispersion Staining. This analysis was performed in-house. The reporting limit of the method is 0.1g/kg.

The Hibbs & Associates Pty Ltd NATA endorsed analysis report is contained in Appendix 3.

Asbestos Types and Common Name:	Chrysotile	- White Asbestos
	Amosite	- Brown Asbestos
	Crocidolite	- Blue Asbestos

The identifying sample number within the Hazardous Building Materials Register (Appendix 1) and Asbestos Analysis Report (Appendix 3) is the job number (S8654) followed by the building asset number and a sequential sample number e.g. S8654/BUI00310/01.

2.2.2 Lead Based Paints

i) Lead Paint Standard

Australian Standard, AS 4361.2-1998 "Guide to Lead Paint Management, Part 2: Residential and Commercial Buildings" defines lead paint - a paint film or component coat of a paint system in which the lead content (calculated as lead metal) is in excess of 1.0% by weight of the dry film as determined by laboratory testing.

The "Standard for the Uniform Scheduling of Drugs & Poisons" defines a Third Schedule Paint as containing greater than 0.1% lead by dry weight (as from 1 December 1997).

It is generally accepted by industry that paints with greater than 0.25% lead require some precautions when working on them.

ii) Lead Paint Sample Identification

The method used to assess the concentration of lead in paint for this site uses X-Ray Fluorescence (XRF) with measured concentrations given in mg/cm². An equivalent approximation (see AS 4361.2 – 1998) is 1 mg/cm² = 0.5% Lead.

The portable XRF has a linear working range between 0.00 mg/cm² to 5.00 mg/cm² with a detection limit of 0.01 mg/cm².

Given that paints with greater than 0.25% lead require some precautions when working on them we have defined lead containing paint as those paints which tested positive using the portable XRF spectrum analyser i.e. >0.25% lead.

To ensure the accuracy and precision of the XRF analyser, the machine is re-calibrated every hour during testing in addition to the in-built self-calibration check every time the

instrument is turned on or reset to a new mode. Furthermore, the calibrations are checked against several standard samples (provided by manufacturer is a set of government-traceable lead paint films for Lead Paint Testing Mode). These tests against known standards with certified values ensure that the instrument is functioning properly and the results can be validated with a permanent record of regular calibrations.

No paint samples were collected for analysis by an external laboratory.

2.2.3 Polychlorinated Biphenyl's (PCBs)

Where accessible representative samples of each major type of fluorescent light were examined to determine which lights are fitted with PCB containing ballast capacitors. The details of the brand and model of each capacitor were recorded and checked with the ANZECC database "Identification of PCB-containing Capacitors, An Information Booklet for Electricians and Electrical Contractors, ANZECC 1997" of known PCB capacitors and PCB free capacitors.

The Australian and New Zealand Environment Conservation Council "Polychlorinated Biphenyls Management Plan, April 2003" outlines the National Strategy for the management of PCBs.

These documents are similar and, in summary, define PCB materials and wastes as follows:

<2 mg/kg	- PCB free.
2 mg/kg - <50 mg/kg	- Non-Scheduled PCB material or waste.
>50 mg/kg	- Scheduled PCB material or waste.
>100,000 mg/kg (10%)	- Concentrated PCB material

Note: "Previously sampled" indicates results contained in reports prepared by others that were available for review. The original sample number is also included in the register.

2.3 Statement of Building Survey Limitations

This report was prepared for Warringah Council solely for the purposes set out herein and it is not intended that any other person use or rely on the contents of the report. The information contained in this report is based on a limited review of the site, interviews with site personnel and review of documentation provided to Hibbs & Associates Pty Ltd at the time of the review. Whilst the information contained in the report is accurate to the best of our knowledge and belief, Hibbs & Associates Pty Ltd cannot guarantee the completeness or accuracy of any of the descriptions or conclusions based on the information supplied to it or obtained during the investigations, site surveys, visits and interviews. Furthermore, conditions can change within limited periods of time, and this should be considered if the Report is to be used after any elapsed time period subsequent to its issue.

Hibbs & Associates Pty Ltd has exercised reasonable care, skill and diligence in preparation of the Report. However, except for any non-excludable statutory provision, Hibbs & Associates Pty Ltd gives no warranty in relation to its services or the report, and is not liable for any loss, damage, injury or death suffered by any party (whether caused by negligence or otherwise) arising from or relating to the services or the use or otherwise of this report.

Where the client has the benefit of any non-excludable condition or warranty, the liability of Hibbs & Associates Pty Ltd is, to the extent permitted by law, limited to re-performing the services or refunding the fees paid in relation to the services or sections of the report not complying with the conditions or warranty.

This Report lists the known specific and typical locations/applications/sources of the hazardous materials identified in the areas of the building(s) inspected. Whilst the Report has been prepared with all due care and every reasonable attempt has been made to identify and locate all the sources of the hazardous materials listed above, as the survey involves a visual inspection and sampling process, only those materials that are physically accessible and recognisable as hazardous materials, can be located and identified. Therefore, it is possible that hazardous materials which may be concealed within inaccessible areas / voids or have been installed in non-typical applications or installed in such a manner as to conceal their nature/identity, may not be identified and located during the survey. Such concealed and / or inaccessible areas fall into a number of categories.

(i) Inside set ceilings or wall cavities.

(ii) Building facades or other height restricted areas.

(iii) Those areas accessible only by dismantling equipment or performing minor local demolition work.

(iv) Service shafts, ducts etc., concealed within the building structure or internal areas of the plant or equipment.

(v) Totally inaccessible areas such as voids and cavities created and intimately concealed within the building structure. These voids are only accessible during building works.

(vi) Hazardous materials covered or concealed (partially or otherwise) by other materials/items preventing or limiting visual access or identification/recognition.

(vii) Hazardous materials installed in non-typical applications, covered by other materials or installed in such a manner that disguises or conceals their nature in any way that may hinder their identification or recognition as a hazardous material.

Therefore, without substantial demolition of the building, it is not possible to guarantee that every source of hazardous material has been identified / detected.

During the course of future refurbishment or demolition works, care should be exercised when entering any previously inaccessible areas and it is imperative that work cease pending further sampling if any unknown materials or suspected hazardous materials are encountered.

This Report should not be used for the purpose of tendering, preparing costing or budgets, programming of works, refurbishment works or demolition works, unless used in conjunction with a technical specification report. The Report must be read in its entirety and must not be copied, distributed or referred to in part only. The Report must not be reproduced without the written approval of Hibbs & Associates Pty Ltd.

3.0 BRIEF DESCRIPTION OF THE SITE

3.1 Site Details

The North Manly Bowling Club is located at Kentwell Road, Manly Vale NSW 2093.

The bowling club is located on the north side. A workshop building is located on the south side with an amenities block attached.

3.2 Site Description

The following is a brief description of each building / structure inspected.

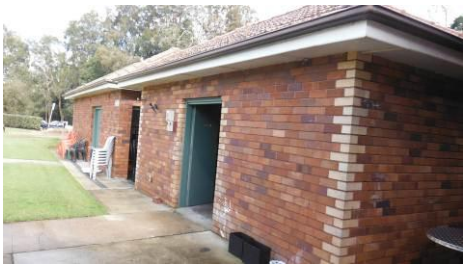
North Manly Bowling Club

It is estimated that the building was constructed in 1953.

The building is a single level stand alone structure with a tiled roof, brick external walls, plasterboard, fibre cement sheet and brick rendered internal walls, fibre cement sheet and plasterboard ceilings and concrete floors.

Workshop Building

The building is a single level attached structure with a tiled roof, brick walls and concrete floors.



Amenities\Store Building

The building is a single level attached structure with a tiled roof, brick walls and concrete floors.

3.3 Areas Not Accessible

The following table shows the details of areas that were not able to be accessed during the site inspection.

NORTH MANLY BOWLING CLUB INACCESSIBLE AREAS		
LOCATION	**MATERIAL**	**COMMENT**
External, Club, rear wall	Electrical cabinet may contain an asbestos electrical backing board	The electrical cabinet was locked with no key access. Inspect upon next scheduled maintenance

4.0 HAZARD CONTROL STRATEGIES AND RECOMMENDATIONS

4.1 Asbestos Materials

4.1.1 Risk Assessment

No friable asbestos containing materials were identified in the North Manly Bowling Club.

The asbestos containing materials identified in the North Manly Bowling Club are non-friable (bonded) and are in a stable condition. They do not present a significant asbestos related health risk whilst they are maintained in good condition and remain undisturbed.

4.1.2 Hazard Control Strategies and Management Options

In situ management is recommended for asbestos containing materials in good condition as outlined in the Safe Work Australia approved code of practice "How to Manage and Control Asbestos in the Workplace". This Code of Practice is an approved code of practice under section 274 of the *Work, Health and Safety Act, 2011*.

It is recommended the asbestos containing materials are labelled in accordance with requirements of the Safe Work Australia approved Code of Practice "How to Manage and Control Asbestos in the Workplace".

Implementation of asbestos management procedures that minimises the potential for future damage of the asbestos materials should also be adopted. The asbestos materials should be inspected on a regular basis in accordance with the recommendations in the asbestos register in Appendix 1 of this report to ensure any deterioration or damage is detected early and that the material(s) are maintained in a good and stable condition.

4.1.3 Renovations / Demolition

Asbestos materials should be removed prior to the commencement of any renovation or demolition works that may cause their disturbance. It is recommended that any areas or materials listed in this report as potentially containing asbestos that were not sampled at the time of the survey are sampled prior to any refurbishment works that require their removal or disturbance.

As required in Regulation 448 of the *Work, Health and Safety Regulations, 2011* the person with management or control of a workplace must ensure that, before demolition or refurbishment is carried out at the workplace, the asbestos register for the workplace is reviewed; and if the register is inadequate having regard to the proposed demolition or refurbishment then it is revised.

Any removal of the asbestos materials should be done in accordance with the requirements of the Safe Work Australia Code of Practice 2011 "How to Safely Remove Asbestos".

4.2 Synthetic Mineral Fibre Materials

Minor sources of bonded synthetic mineral fibre containing materials are present in the North Manly Bowling Club. These SMF materials have been installed in accordance with current industry practice and are in a good and stable condition. They do not pose a significant health risk to the occupants of the building.

The handling or removal of any SMF containing materials should be conducted in accordance with the requirements of the Synthetic Mineral Fibres National Standard (NOHSC:1004) and National Code of Practice (NOHSC:2006).

4.3 Lead Based Paint Systems

4.3.1 Risk Assessment

The lead based paint systems identified in the North Manly Bowling Club are in a stable condition. They do not present a significant health risk whilst they are maintained in good condition and remain undisturbed.

Any works, which may disturb potential lead based paint systems, should be conducted in accordance with the requirements of Australian Standard AS 4361.2 1998 "*Guide to lead paint management, Part 2: residential and commercial buildings*".

4.4 Polychlorinated Biphenyl Capacitors

No PCB containing electrical components were identified in the North Manly Bowling Club.

The site assessment examined a representative portion of the fluorescent light fittings throughout the buildings on this site. However, it is possible that there will be a variation of capacitor types (or leaking capacitors) in fittings not examined.

Should any metal cased capacitors be identified in other light fittings on the site, they should be assessed for PCB content. Any leaking PCB containing capacitors identified should be removed and disposed of in accordance with the requirements of the relevant states and territories prior to the commencement of any renovation or demolition works that may cause their disturbance.

NORTH MANLY BOWLING CLUB
HAZARDOUS BUILDING MATERIALS SURVEY

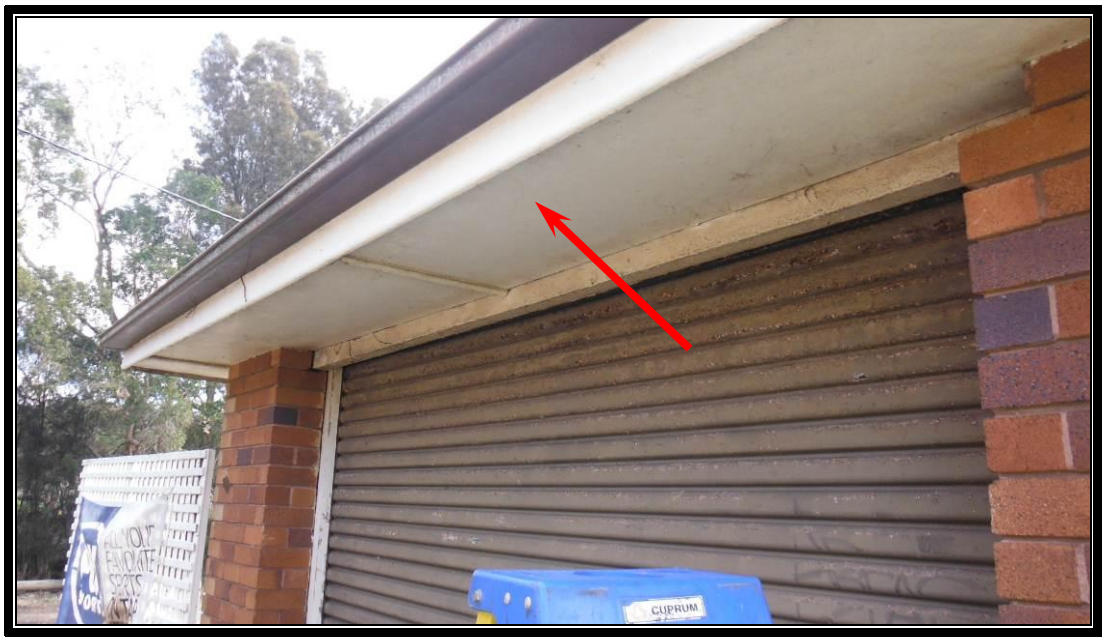
APPENDIX 1: HAZARDOUS BUILDING MATERIALS REGISTER

ASSETNBR	ParentAssetID	MaterialType	MaterialTypeDescription	Material	MaterialDescription	Condition	Accessibility	RiskRating	Location (40 characters only red text indicates text is too long)	ManagementRegimeCode	ManagementRegime	InspectedBy (40 characters only red text indicates text is too long)	CollectionDate	SampleID	AnalysisResult (40 characters only red text indicates text is too long)	Comments
HAZ00165	BUI00137-North Manly Bowling Club	ACM	Asbestos Containing Material (ACM)	FIBCEMSH	Fibre Cement Sheeting				Eaves lining all sides	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	Previously sampled CB170407.06	No asbestos detected	
HAZ00166	BUI00137-North Manly Bowling Club	ACM	Asbestos Containing Material (ACM)	FIBCEMSH	Fibre Cement Sheeting				Window and door infill panel	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	Previously sampled CB170407.06	No asbestos detected	
HAZ01287	BUI00137-North Manly Bowling Club	ACM	Asbestos Containing Material (ACM)	FIBCEMSH	Fibre Cement Sheeting				Storage room adjacent locker room	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\01	No asbestos detected	
HAZ01288	BUI00137-North Manly Bowling Club	ACM	Asbestos Containing Material (ACM)	FIBCEMSH	Fibre Cement Sheeting				Dining area	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\02	No asbestos detected	
HAZ01289	BUI00137-North Manly Bowling Club	ACM	Asbestos Containing Material (ACM)	FIBCEMSH	Fibre Cement Sheeting				Females toilet south of dining area partition walls	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\03	No asbestos detected	
HAZ01290	BUI00137-North Manly Bowling Club	ACM	Asbestos Containing Material (ACM)	FIBCEMSH	Flat asbestos cement sheet				Amenities\Store Building eaves lining all sides	3YEARS	Leave maintain and inspect 3 yearly	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\04	Contains chrysotile & crocidolite asbestos	
HAZ01291	BUI00137-North Manly Bowling Club	ACM	Asbestos Containing Material (ACM)	FIBCEMSH	Flat asbestos cement sheet				Workshop Building eaves lining all sides	3YEARS	Leave maintain and inspect 3 yearly	Hibbs & Associates Pty Ltd	29/06/2015	Ref S8654\BUI00137\04	Contains chrysotile & crocidolite asbestos	
HAZ01292	BUI00137-North Manly Bowling Club	ACM	Asbestos Containing Material (ACM)	ADDSEAL	Putty on window frame				External workshop building	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\05	No asbestos detected	
HAZ01293	BUI00137-North Manly Bowling Club	ACM	Asbestos Containing Material (ACM)	ELECBAC	Electrical Backing Board	UNKNOWN	INACCESS	UNKNOWN	Electrical box on rear wall of Club	3YEARS	Leave maintain and inspect 3 yearly	Hibbs & Associates Pty Ltd	29/06/2015	Visual Inspection	May contain asbestos	
HAZ01294	BUI00137-North Manly Bowling Club	SMF	Synthetic Mineral Fibre (SMF)	INSULROL	Insulation in hot water units	GOOD	INACCESS	LOW	Club storage room adjacent locker room	WORKS	Investigate prior to refurbishment works or demolition	Hibbs & Associates Pty Ltd	29/06/2015	Visual Inspection	May contain SMF	
HAZ01295	BUI00137-North Manly Bowling Club	LEAD	Lead	PAINT	White coloured paint system	GOOD	EASY	LOW	Window frame outside Office	3YEARS	Leave maintain and inspect 3 yearly	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\P01	Contains Lead	
HAZ01296	BUI00137-North Manly Bowling Club	LEAD	Lead	PAINT	White coloured paint system	GOOD	EASY	LOW	All club window frames	3YEARS	Leave maintain and inspect 3 yearly	Hibbs & Associates Pty Ltd	29/06/2015	Ref S8654\BUI00137\P01	Contains Lead	
HAZ01297	BUI00137-North Manly Bowling Club	LEAD	Lead	PAINT	White coloured paint system				Compressor hut in rear	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\P02	Does not contain Lead	
HAZ01298	BUI00137-North Manly Bowling Club	LEAD	Lead	PAINT	White coloured paint system				Fence at rear	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\P03	Does not contain Lead	
HAZ01299	BUI00137-North Manly Bowling Club	LEAD	Lead	PAINT	White coloured paint system				Amenities\Store Building eaves linings	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\P04	Does not contain Lead	
HAZ01300	BUI00137-North Manly Bowling Club	LEAD	Lead	PAINT	White coloured paint system				Workshop Building eaves lining	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	Ref S8654\BUI00137\P04	Does not contain Lead	
HAZ01301	BUI00137-North Manly Bowling Club	LEAD	Lead	PAINT	White coloured paint system				Workshop Building window frames	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\P05	Does not contain Lead	
HAZ01302	BUI00137-North Manly Bowling Club	LEAD	Lead	PAINT	White coloured paint system				Amenities\Store Building window frames	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\P06	Does not contain Lead	
HAZ01303	BUI00137-North Manly Bowling Club	LEAD	Lead	PAINT	White coloured paint system				Workshop\Amenities Building door frame	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	S8654\BUI00137\P07	Does not contain Lead	
HAZ01304	BUI00137-North Manly Bowling Club	NOPCB	Polychlorinated Biphenyl (PCB)-No PCB's	FLUROCNT	Fluorescent lighting control gear				Throughout	NA	NA	Hibbs & Associates Pty Ltd	29/06/2015	Visual Inspection	Non - PCB	

NORTH MANLY BOWLING CLUB
HAZARDOUS BUILDING MATERIALS SURVEY

APPENDIX 2: PHOTOGRAPHS

Photograph 01



Site: North Manly Bowling Club.

Location: Amenities\Store Building, eaves lining all sides.

Description: The red arrow points to flat asbestos cement sheet.

Recommendation: Leave and maintain in good condition.

Photograph 02

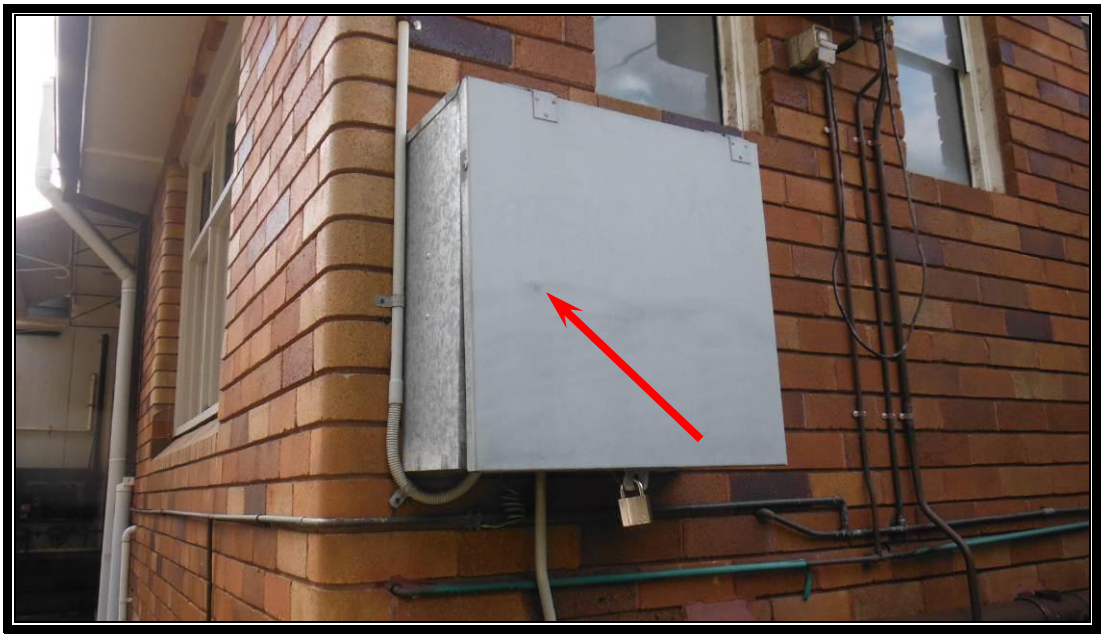
Site: North Manly Bowling Club.

Location: Workshop Building, eaves lining all sides.

Description: The red arrow points to flat asbestos cement sheet.

Recommendation: Leave and maintain in good condition.

Photograph 03



Site: North Manly Bowling Club.

Location: External, electrical box on rear wall

Description: The red arrow points to locked electrical box.

Recommendation: Leave and maintain in good condition.

NORTH MANLY BOWLING CLUB
HAZARDOUS BUILDING MATERIALS SURVEY

APPENDIX 3: ASBESTOS ANALYSIS REPORT

The analytical report in this appendix has a separate page numbering system.

HIBBS & ASSOCIATES PTY.LTD.

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ACCREDITED FOR TECHNICAL COMPETENCE
NATA Accredited Laboratory Number: 14911
Accredited for compliance with ISO/IEC 17025

Our Reference: S8654-BSA BUI00137

19 November 2015

Warringah Council,
725 Pittwater Road
Dee Why NSW 2099

Attention: Mr Derek Batchelor
Facilities Manager

Dear Mr Batchelor

RE: ASBESTOS BULK SAMPLE ANALYSIS

The following report presents the result of analysis conducted on five (5) samples collected during the asbestos survey of the North Manly Bowling Club located at Kentwell Road, Manly Vale NSW 2093. on 29 June 2015.

The samples were analysed for the presence of asbestos using Hibbs & Associates Pty Ltd Test Method No. 2. This method is based on:

(i) Australian Standard "AS4964-2004 Method for the qualitative identification of asbestos in bulk samples"; and

(ii) Health and Safety Executive – UK, "Asbestos: The analysts' guide for sampling, analysis and clearance procedures, Appendix 2: Asbestos in bulk materials: Sampling and identification by polarised light microscopy (PLM), Publication No. HSG248".

The samples were examined by stereo microscopy. Fibrous materials identified under stereo microscopy were extracted and analysed by Polarised Light Microscopy supplemented with Dispersion Staining.

The results are contained in the following table:

Sample No.	Material Description	Analysis Result
S8654-BSA BUI00137/01	Cement sheet. Sample weight - 0.3 grams	No asbestos fibres detected[1]
S8654-BSA BUI00137/02	Cement sheet. Sample weight - 0.4 grams	No asbestos fibres detected
S8654-BSA BUI00137/03	Cement sheet. Sample weight - 0.5 grams	No asbestos fibres detected
S8654-BSA BUI00137/04	Cement sheet. Sample weight - 0.3 grams	Contains Chrysotile[2] and Crocidolite[3]

Sample No.	Material Description	Analysis Result
S8654-BSA BUI00137/05	Mastic. Sample weight – 1.0 grams	No asbestos fibres detected

1. No asbestos fibres detected at the reporting limit of 0.1g/kg.
2. Chrysotile – White asbestos.
3. Crocidolite – Blue asbestos

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Should you have any queries regarding this report, please do not hesitate to contact Samantha O'Callaghan on either (02) 9746 3244 or 0448 022 216.

Yours sincerely
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