



# **Douglas Partners**

*Geotechnics | Environment | Groundwater*

Report on  
Hazardous Building Materials (HBM) Survey

Hastings Secondary College - Port Macquarie Campus  
16 Owen Street, Port Macquarie

Prepared for  
School Infrastructure NSW  
on behalf of Department of Education

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Integrated Practical Solutions



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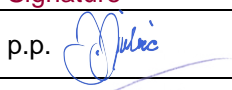

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## Executive Summary

Douglas Partners Pty Ltd (DP) was commissioned by School Infrastructure NSW (SINSW), on behalf of the Department of Education (DoE), to conduct a Hazardous Building Materials (HBM) survey of nominated buildings at Hastings Secondary College - Port Macquarie Campus, 16 Owen Street, Port Macquarie NSW (the Site). The survey was undertaken to assess the location, extent and condition of asbestos-containing materials (ACM) and other HBM prior to building works and was originally reported under separate cover to SINSW C/- CBRE Australia Pty Ltd (refer Document History on previous page of this report). This updated report contains additional / revised information as requested by SINSW, DoE and / or their agent(s).

The survey (undertaken in / about March 2020) comprised a non-destructive, non-intrusive visual inspection (due to ongoing occupation of the nominated buildings) and was supplemented by a limited program of sample collection and laboratory analysis.

HBM were identified or assumed present during the survey as indicated in Table 1 below.

**Table 1: Summary of Results**

Building / Area	Non-Friable Asbestos	Friable Asbestos	SMF	Lead Paint	Lead Dust	PCB
B00A (nominated portion only)	✓	✗	✓	✓	✓	✓
B00B	✓	✗	✓	✓	✓	✓
B00C	✓	✗	✓	✓	✓	✓
B00L (nominated portion only)	✓	✗	✓	✓	✓	✓
B00S	✓	✗	✓	✓	✗	✓
B00T	✓	✗	✓	✗ <sup>#</sup>	✓	✓
BMPC	✓	✓	✓	✓	✓	✗
BTAS	✓	✗	✓	✓	✓	✓

SMF = synthetic mineral fibre, PCB = polychlorinated biphenyls, ✓ = identified or assumed present, ✗ = not identified and/or not assumed present, <sup>#</sup> Caution is advised due to age of building and positive lead-paint spot test results.

Limited or no access was available to certain areas of the nominated buildings at the Site. Inaccessible areas should be assumed to contain HBM unless assessment of these areas by a Competent Person confirms otherwise.

HBM should be managed in accordance with the requirements of the NSW Work Health and Safety (WHS) Act 2011 (WHS Act), NSW WHS Regulation 2017 (WHS Regulation) and relevant Codes of Practice, Australian Standards and guidelines.

HBM should be removed prior to any significant disturbance including from maintenance, refurbishment and demolition work.

Limitations apply to this HBM survey and report as outlined in Section 7.

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## **Report on Hazardous Building Materials (HBM) Survey Hastings Secondary College - Port Macquarie Campus 16 Owen Street, Port Macquarie NSW**

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### **1. Introduction**

Douglas Partners Pty Ltd (DP) was commissioned by School Infrastructure NSW, on behalf of the Department of Education (DoE) to conduct a hazardous building materials (HBM) survey of nominated buildings at Hastings Secondary College - Port Macquarie Campus, 16 Owen Street, Port Macquarie NSW (the Site) previously known as Port Macquarie High School. The survey was originally reported under separate cover to SINSW C/- CBRE Australia Pty Ltd (refer Document History in this report). This updated report contains additional / revised information as requested by SINSW, DoE and / or their agent(s).

The survey was undertaken to assess the location, extent and condition of the following HBM:

- Asbestos containing materials (ACM);
- Synthetic mineral fibre (SMF) insulation;
- Polychlorinated biphenyls (PCBs) in fluorescent light fittings;
- Lead paint systems; and
- Lead dust in ceiling cavities.

The survey primarily comprised a non-destructive, non-intrusive visual inspection (due to ongoing occupation of the nominated buildings) supplemented by a limited program of sample collection and laboratory analysis.

Notes about this report, and relevant site / plans, are contained in Appendix A.

The results of the survey, including details of the HBM identified and the results of ACM risk assessments, are provided in the HBM Registers (the Registers) in Appendices B to I. Selected photographs are also contained therein.

Laboratory analysis certificate(s) for the samples collected and analysed are provided in Appendix J.

Limited or no access was available to certain areas as outlined in the Register and Section 5 of this report.

### **2. Site Description**

The Site is located on the eastern side of Owen Street, between Burrawan Street and Maritime Lane, in Port Macquarie NSW. It has a secondary street frontage to Burrawan Street and adjoins Oxley Oval along the eastern boundary.

The Site comprises a high school campus containing around thirteen primary buildings plus shade structures, covered walkways and car park areas. The original school buildings are understood to have been constructed *circa* 1962 with various additional buildings constructed in 1966, 1985, 1998, 1999 1990's and 2000's. Site and building plans are provided in Appendix A. The buildings / areas nominated for inspection were:

- B00A (nominated portions only as indicated on the building plan in Appendix A), comprising a brick/block structure constructed *circa* 1962;
- B00B comprising a brick / block structure constructed *circa* 1966;
- B00C comprising a brick / block structure constructed *circa* 1962;
- B00L (nominated portions only as indicated on the building plan in Appendix A), comprising a brick / block structure constructed *circa* 1966;
- B00S comprising a timber structure constructed *circa* 1962;
- B00T comprising a brick / block structure constructed *circa* 1962;
- BMPC comprising a brick veneer structure constructed *circa* 1985; and
- BTAS comprising a brick / block structure constructed *circa* 1962.

The abovementioned construction types and dates are as per the DoE asbestos register for the school (refer Section 3) at the time of assessment.

DP understands that buildings B00T and BTAS have been demolished since our HBM survey. Demolition of buildings B00C and BTAS is also indicated by Metro Map aerial imagery accessed by DP on 20 April 2021. Notwithstanding this, for the purposes of this report, DP have not ground-checked that demolition of any building (e.g. B00C, B00T and / or BTAS) has occurred.

### 3. Survey Method

The existing DoE asbestos register for the Hastings Secondary College, Port Macquarie Campus (8364), initially developed by Noel Arnold & Associates (27 March 2008) and reviewed by Greencap-NAA (14 April 2016), was examined to inform the HBM survey. DP has relied upon certain information, such as building construction dates and apparent sample analysis results, contained therein.

The survey primarily consisted of a non-intrusive, non-destructive visual inspection of safely accessible portions of the nominated buildings / areas in / about March 2020. The inspection was supplemented by a limited program of sample collection and laboratory analysis.

Samples of suspected ACM were collected by DP using hand tools (e.g., knife or pliers) and analysed for asbestos by a National Association of Testing Authorities (NATA) accredited laboratory. Sample size is typically limited to minimise disturbance of the material and potential structural or aesthetic impacts. The samples were analysed by polarised light microscopy (PLM) with dispersion staining in accordance with AS4964-2004 *Method for the qualitative identification of asbestos in bulk samples*.

Spot testing for lead paints was conducted using 3M LeadCheck™ swabs. Where these swabs returned a marginal or positive result a paint sample was generally collected by DP and analysed for lead by a

NATA accredited laboratory. Analysis was by Inductively Coupled Plasma - Atomic Emission Spectrometry / Mass Spectrometry (ICP-AES / MS) or other appropriate method. Paint samples contained approximately equal portions of all layers of paint at the locations sampled, to the extent reasonably practicable, and therefore typically reflect the average lead content of the overall paint system at the location sampled.

SMF insulation was identified primarily by visual inspection or incidentally as a result of laboratory analysis for asbestos.

Light fittings were visually inspected to assess their general age and whether any indicators of past PCB removal programs (e.g., 'PCB free' labels) were present. Light fittings were generally not dismantled to confirm capacitor type and details due to the electrical hazard and the likelihood of damage to older fittings.

Lead dust samples are collected from readily accessible ceiling cavities. Samples were collected from a surface area of 100 cm<sup>2</sup> or 900 cm<sup>2</sup> and analysed for lead by a NATA accredited laboratory using ICP-AES / MS. The sampling area and laboratory analysis result (total lead in µg) were then used to calculate the lead dust loading in milligrams of lead per square metre (mg/m<sup>2</sup>).

Surveys typically proceed on a 'risk management' basis whereby priority is given to addressing material(s) of higher quantity and / or risk and as they are encountered. Further, material sampling and analysis programs are necessarily limited and, in the case of similar or repetitive buildings, building elements and / or rooms / areas, it is often necessary to assume consistent use of construction materials including HBM.

#### **4. Asbestos Risk Assessment Method**

ACM poses a health risk if asbestos fibres are released to the atmosphere and inhaled. There is also a risk of environmental contamination whenever asbestos is disturbed. The degree of risk associated with any given ACM depends on a range of factors such as the friability, extent, condition, and location / accessibility of the material, the asbestos mineral type(s) present, the nature of site activities and ventilation.

The asbestos risk assessment method employed by DP considers several key factors that influence risk and a numerical score is assigned to each (refer Table 2 below). These scores are then added together to determine an overall risk rating for the ACM (refer Table 3 below). A degree of professional judgement may be applied when determining the final risk rating since, for example, it is not practicable to include in Table 2 all risk factors that may be relevant to a given situation.

Risk assessments for ACM should be reviewed on a regular basis including when:

- The Asbestos Management Plan is reviewed;
- Further asbestos or ACM is identified at the workplace;
- Asbestos is removed, disturbed, sealed, enclosed or undergoes any other change in condition;
- There is evidence that the risk assessment is no longer valid;

- There is evidence that control methods are not effective; or
- A significant change is proposed for the workplace or for work practices or procedures relevant to the risk assessment.

An asbestos risk assessment review is to be conducted at least every 5 years. The review is to be performed by a Competent Person.

**Table 2: Key Risk Factors**

<b>Risk Factor</b>	<b>Score</b>	<b>Description</b>
<b>Friability</b>	0	Non-friable (fibre reinforced vinyls, bituminous materials, adhesives)
	1	Non-Friable (fibre reinforced cement products such as wall and roof sheeting)
	2	Semi-Friable (low density insulation board, millboard, ropes, paper, textiles, gaskets or highly weathered asbestos cement)
	3	Friable (thermal insulation to pipes/boilers, sprayed insulation, loose fill insulation)
<b>Condition</b>	0	Very Good. Very little or no visible indication of damage. Structurally sound. No significant repairs required. Material performs as intended.
	1	Good - Minor damage in small, localised areas. Structurally sound. Minor preventative action may be required as a precaution and/or to prolong material life. Material generally performs as intended.
	2	Fair. Localised damage in various areas. Material is generally structurally sound however local removal and replacement of damaged sections may be required. Material performance may be somewhat impaired in areas.
	3	Poor. Material exhibits significant damage throughout. Overall structural stability may be compromised. Material performance is significantly impaired.
<b>Treatment</b>	0	Fully enclosed, encapsulated or sealed. ACM is entirely contained, and the enclosure/encapsulation/sealing material is in good condition.
	1	Generally enclosed, encapsulated or sealed. ACM is generally contained however enclosure/encapsulation/sealing material may not be completely continuous or exhibits minor damage/penetrations.
	2	Partially enclosed, encapsulated or sealed. ACM is contained in area(s) however enclosure/encapsulation/sealing material is not present, significantly damaged or ineffective in area(s).
	3	Enclosure/encapsulation/sealing material is significantly damaged and/or generally ineffective or there is no treatment.
<b>Accessibility</b>	0	The ACM is not directly accessible to occupants. Contact is highly unlikely unless a significant, dedicated effort is made. Substantial demolition, dismantling and/or special access equipment would be required.
	1	The ACM is generally not accessible to occupants. Contact is unlikely but could be made with special tools or equipment (e.g. elevating work platform) or minor demolition/dismantling.
	2	Some portion(s) of ACM are accessible to occupants. Direct contact may occur periodically but often requires basic tools/equipment (e.g. step ladder).
	3	The majority of the ACM is accessible to occupants. Direct contact is a common occurrence and may be made with minimal or unintentionally.
<b>Activity</b>	0	Area generally not occupied. Normally very little or no activity. Activities may be highly restricted, or the area secured. Examples may include subfloor voids, ceiling cavities, confined spaces and other inaccessible areas.
	1	Low level occupancy. Some activity in parts or area only occupied periodically. Examples may include plant rooms and store rooms.
	2	Moderate level occupancy. Activity normally present throughout area. May include offices, laboratories, classrooms, workshops, and warehouses.
	3	High level occupancy. Generally high levels of activity. Activities may be wide-ranging and/or largely unrestricted. Examples may include production/manufacturing areas, construction sites and public areas/thoroughfares.
<b>Ventilation</b>	0	Exterior area where natural ventilation and associated dilution is largely unlimited. Significant retention and/or build-up of airborne contaminants is unlikely.
	1	Interior area. Natural ventilation and dilution are limited but area is not particularly confined. Limited retention and/or build-up of airborne contaminants is possible.
	2	Confined areas where ventilation and associated dilution is significantly limited. Significant retention and/or build-up of airborne contaminants is possible or likely.
	3	Asbestos material subject to direct ventilation (e.g. inside an AC system or near a fan or air exhaust) which may result in disturbance and/or elevated fibre concentrations in air.

**Table 3: Risk Rating**

Overall Score	Risk Rating	Description
15-18	High (H)	The ACM poses an elevated and typically unacceptable risk of exposure and / or environmental contamination. Controls should generally be implemented as soon as possible to address the risk. Removal of the whole or part of the ACM is typically required. Other controls such as enclosure, encapsulation and / or sealing may also be necessary if portion(s) of ACM are to remain in place. As an interim measure, access to the area should be appropriately restricted. Air monitoring is often recommended to confirm airborne asbestos concentrations and provide a written record for future reference.
10-14	Moderate (M)	The ACM poses a moderate risk of exposure and/or environmental contamination. Often there has been minor damage or there is potential for disturbance / degradation in the foreseeable future. Consideration should be given to implementing appropriate controls in the short to medium term to address the risk(s) and / or prolong the lifespan of the material. Relevant controls typically include enclosure, encapsulation and / or sealing. Extensive removal is generally not required, and the material can generally be managed on site if desired and serving a useful purpose.
0-9	Low (L)	The risk of exposure and environmental contamination is generally low while the material remains undisturbed and in its present condition. The material may generally remain in place without the requirement for significant, material-specific control measures such as removal, enclosure, encapsulation or sealing.

**Note:** If the ACM is likely to be disturbed (e.g. by maintenance, refurbishment or demolition work) and/or is no longer serving a useful purpose then the ACM should generally be removed. All ACM should be clearly identified with a label/signage where reasonably practicable.

## 5. Results

The overall results of the survey are summarised in Table 1 in the Executive Summary of this report. Further details of the HBM identified at the Site, including the results of asbestos risk assessments, are provided in the Registers in Appendices B to I. Results are only current as of DP's inspection in / about March 2020.

Limited or no access was available to certain areas as outlined in the Registers and Table 4 below.

SMF was identified by laboratory analysis in some samples of ceiling vermiculite and, since the sample analysis method is primarily focused on identification of asbestos, it is possible that SMF may be present in ceiling vermiculite more broadly than indicted by the sample analysis results. Regardless, an appropriate risk assessment should be conducted, and SWMS developed, for any work that may involve disturbance of ceiling vermiculite and adequate controls should be implemented to prevent generation of airborne dust, human exposure and environmental contamination.

The HBM survey identified asbestos containing flooring materials in various locations. Due to the non-destructive and non-intrusive nature of the survey, and the presence of fixtures / furnishings and other stored items etc., it is possible that further asbestos-containing materials (e.g., vinyl flooring, backing materials and / or adhesive materials) may be encountered below the flooring materials currently exposed in the buildings assessed.

Asbestos was identified in some putties, mastics and sealants in and around window frames and in building and pavement expansion joints. Where identified, such asbestos containing materials should be taken to potentially occur throughout the building / area in general and may also be expected in buildings of similar age and construction at the Site.

Notwithstanding the HBM assessed by DP (refer Section 1), the presence of lead flashing in some buildings was also confirmed by lead spot testing. Where identified, such materials should be taken to potentially occur throughout the building / area in general and may also be expected in buildings of similar age and construction at the Site.

**Table 4: Access Limitations\***

Location / Area	Access Type	Reason(s)
Areas / materials at height (e.g., roofs)	Limited	Access limited to safely accessible areas and use of 1.8 m step ladder. Work at height and use of specialised access equipment not included in survey scope.
Confined spaces	Nil	Not included in survey scope.
Ceiling cavities and subfloor voids	Limited	Access generally limited by height / location of access points, available light, location of services / structure and general clearance within cavity / void. Inspection of crawl spaces not included in survey scope. Inspection around the perimeter of ceiling cavities is generally restricted where the ceiling cavity tapers out.



Below floor covering materials (e.g., carpet, vinyl sheeting etc.)	Limited	Access generally limited due to fixtures / furnishings, storage, potential for damage to current finishes and ongoing occupation.
Below ceramic tiled surfaces (e.g., walls and floors in wet areas)	Nil	Typically requires destructive removal of tiles and damage to current finish.
Enclosed building cavities and voids (e.g., service risers) and internals of building plant	Nil	Detailed dismantling / demolition typically required. Access generally impractical.
Energised plant, equipment and services (e.g., electrical panels and light fittings).	Nil	Access requires isolation and de-energisation by a qualified / licensed technician or similar. Not included in survey scope.
Materials intimately associated with building structure or components (e.g., enclosed within windows / doors)	Nil	Typically requires destructive / intrusive inspection and damage to current finish.
Subsurface areas and contamination in soil / fill	Nil	Not included in survey scope.
Areas in general (particularly designated storage areas)	Limited to very limited in some areas	Access limited by quantity and nature of stored items that would require removal for a complete inspection.

\* Refer also to the Register (Appendix A).

## 6. Recommendations

Relevant notes and / or a summary recommendation for each HBM identified or assumed present at the Site are provided in the Registers (Appendix B and I).

The general recommendations in Section 6.1 onwards are provided for informative purposes and should be considered where the relevant HBM has been identified or assumed present by DP or is subsequently suspected to be present based on reasonable grounds.

The presence of identified and assumed HBM at the Site, and the potential presence of any as-yet undetected HBM, should be considered during the risk assessment for any proposed work at the Site or site use. Additional targeted inspection, sampling and analysis for HBM should be considered prior to any work that may result in the disturbance of such HBM. In particular, a destructive / intrusive HBM survey is warranted prior to substantive renovation and/or building demolition work but can normally only be undertaken once the building has been permanently vacated.

### 6.1 General

HBM should be managed in accordance with the requirements of the WHS Act, WHS Regulation and subordinate Codes of Practice, Australian Standards and guidelines.

An intrusive / destructive HBM survey is warranted and recommended prior to substantive maintenance, renovation and / or demolition work but can generally only be undertaken when the relevant area/building has been permanently vacated. This is to help ensure that the location, extent and condition of relevant HBM have been identified to the extent reasonably practicable.

A hazardous materials management plan should be developed to aid compliance with the requirements of the WHS Act and Regulation including those that relate to the identification of hazards and control of associated risks.

HBM should be visually inspected on a regular basis. Any change to the condition of the material or relevant site conditions should be reported.

HBM should be removed prior to any significant disturbance such as maintenance, refurbishment and demolition work.

Prior to any work involving HBM a risk assessment should be conducted and Safe Work Method Statement (SWMS) developed. The SWMS should outline the controls necessary to ensure that the risks of exposure and environmental contamination are adequately controlled.

HBM remediation and removal work should be undertaken in controlled conditions.

Waste should be assessed and classified for disposal in accordance with relevant legislation and the NSW Environment Protection Authority (EPA) *Waste Classification Guidelines, Part 1: Classifying Waste*, November 2014 (EPA, 2014).

At the completion of hazardous material remediation and removal work a clearance inspection should be conducted by a Competent Person, or in the case of friable asbestos, by a Licensed Asbestos Assessor.

## **6.2 Asbestos-Containing Material (ACM)**

Asbestos and ACM must be managed in accordance the WHS Regulation, the SafeWork NSW *Code of Practice: How to Manage and Control Asbestos in the Workplace* and the SafeWork NSW *Code of Practice: How to Safely Remove Asbestos*.

Exposure to airborne asbestos in the workplace must be eliminated to the extent that is reasonably practicable. If it is not reasonably practicable to eliminate exposure it must be minimised to the extent that is reasonably practicable.

An Asbestos Management Plan must be developed to enable compliance with the WHS Regulation (Clause 429).

The presence and location of asbestos or ACM identified at a workplace must be clearly indicated by a label if it is reasonably practicable to do so.

Warning labels and signs should be consistent with the examples provided in the SafeWork NSW *Code of Practice: How to Manage and Control Asbestos in the Workplace* and comply with AS1319 *Safety Signs for the Occupational Environment*.

Non-friable ACM that are structurally intact and in good to fair condition may typically remain in place provided that they are not significantly disturbed.

Tools and equipment that generate dust must generally not be used on asbestos or ACM. These include high-speed abrasive power and pneumatic tools (e.g., angle grinders, sanders, saws and high-speed drills, brooms and brushes).

Tools and equipment that cause the release of asbestos, including power tools and brooms, may only be used on asbestos if the equipment is enclosed and/or designed to capture or suppress asbestos fibres and / or the equipment is used in a way that is designed to capture or suppress asbestos fibres safely. In such a case, other controls including PPE may also be required based upon the results of a pre-work risk assessment and the SWMS adopted.

The use of high-pressure water spray and compressed air on asbestos or ACM is specifically prohibited under the WHS Regulation.

If ACM become damaged they should be repaired or removed and replaced with an alternative, non-asbestos building product as soon as possible.

The scope of asbestos removal work should be outlined in a technical specification (i.e., Scope of Work Report) developed by a Competent Person (in the case of non-friable asbestos) or a Licensed Asbestos Assessor (in the case of friable asbestos).

Removal of friable asbestos must only be undertaken by a Class A licensed asbestos removalist. Removal of 10 m<sup>2</sup> or more of non-friable asbestos must only be undertaken by a Class A or Class B licensed asbestos removalist.

Air monitoring, including background, control and clearance monitoring, is a mandatory requirement during removal of friable asbestos. Air monitoring should also be considered during removal of non-friable asbestos particularly where sensitive receptors exist such as at schools, hospitals, in public areas and at similar sites.

Air monitoring must be undertaken in accordance with the National Occupational Health and Safety Commission (NOHSC) *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition* [NOHSC:3003(2005)].

All air monitoring samples must be analysed by a NATA accredited laboratory that holds accreditation for the required analysis.

At the completion of asbestos removal, a clearance inspection must be conducted by a Competent Person (for non-friable asbestos removal) or a Licensed Asbestos Assessor (for friable asbestos removal).

Air monitoring and clearance inspections must be performed by person/s independent of the licensed asbestos removalist.

All waste should be classified for disposal in accordance with EPA (2014). Asbestos waste is preclassified as Special Waste under these guidelines.

Asbestos transporters and facilities receiving asbestos waste must report the movement of asbestos waste to the EPA. Entities involved with the transport or disposal of asbestos waste in NSW, or arranging the transport of asbestos waste in NSW, must use the EPA's online tool, WasteLocate.

All asbestos waste must be disposed at a waste collection facility licensed to receive asbestos waste. All disposal receipts should be retained.

A person who relinquishes management or control of the workplace must ensure that the Asbestos Register is given to the person, if any, assuming management or control of the workplace.

### 6.3 Synthetic Mineral Fibre (SMF)

SMF insulation materials may generally remain in place providing that they are in good condition and unlikely to be disturbed.

To reduce the potential for disturbance, exposure and environmental contamination SMF insulation materials may be encapsulated or enclosed. Higher risk materials, such as loose fill insulation, may also be removed and replaced if necessary.

SMF work is to be undertaken in accordance with the requirements of the WHS Regulation and subordinate Codes of Practice, Guidance Notes and other documents. These include:

- SafeWork NSW *Safe management of synthetic mineral fibres (SMF) - glasswool and rockwool*;
- Safe Work Australia *Guide to Handling Refractory Ceramic Fibres*, December 2013; and
- Guidance Note on the Membrane Filter Method for the Estimation of Airborne Synthetic Mineral Fibres [NOHSC:3006(1989)].

Reference should also be made to the Australian Institute of Occupational Hygienists (AIOH) *Synthetic Mineral Fibres (SMF) And Occupational Health Issues, Position Paper*, October 2011 (reformatted January 2018) for guidance and information.

Where reasonable concern exists over possible respirable fibre concentrations in any application, the first step is often to confirm that the work practices, as recommended for the particular product, are being followed. Air monitoring may not be required when it has been clearly established that appropriate work practices are being carried out.

Notwithstanding the above, exposures to airborne SMF should not exceed the relevant Safe Work Australia (SWA) exposure standards outlined in Table 5 below.

**Table 5: SWA Exposure Standards for SMF**

Standard Name	Time Weighted Average (TWA) Exposure Standard
Glass wool, rock (stone) wool, slag wool and continuous glass filament and low biopersistence Man Made Vitreous Fibres (MMVF)	2 mg/m <sup>3</sup> (inhalable dust)
Refractory ceramic fibres (RCF), special purpose glass fibres and high biopersistence MMVF	0.5 f/mL (respirable) 2 mg/m <sup>3</sup> (inhalable dust)

SMF waste should be disposed at a licensed waste collection facility. Note that synthetic fibre waste (from materials such as fibreglass, polyesters and other plastics) packaged securely to prevent dust emissions is pre-classified as General Solid Waste (non-putrescible) under EPA (2014).

All disposal receipts should be retained.

## 6.4 Polychlorinated Biphenyls (PCBs)

Prior to any significant disturbance, such as demolition, refurbishment or maintenance works, fluorescent light fittings should be electrically isolated and inspected in detail for components (e.g. metal canister-type capacitors) that may contain PCB's. Any components containing or suspected to contain PCB should be removed by a Competent Person.

PCB containing components should be managed in accordance with the general requirements of the WHS Regulation and the:

- Environmentally Hazardous Chemicals (EHC) Act 2008 and subordinate *Polychlorinated Biphenyl (PCB) Chemical Control Order 1997*; and
- *Polychlorinated Biphenyls Management Plan, Revised Edition, April 2003*, issued by the Environment Protection and Heritage Council (EPHC).

Any PCB containing capacitors that exhibit leakage should be removed and replaced by a Competent Person as soon as possible. Access to areas containing leaking capacitors should be suitably restricted.

The conveyance and disposal of PCB material and PCB waste must be undertaken in accordance with the requirements outlined in the *Polychlorinated Biphenyl (PCB) Chemical Control Order 1997*.

All disposal receipts should be retained.

## 6.5 Lead Paint

The potential presence of lead paint(s) at the Site should be considered during the risk assessment for any proposed works. Additional, targeted sampling and analysis for lead paints should be considered prior to any work that may result in significant disturbance of paint system(s).

Lead paints should be managed in accordance with the WHS Regulation (including Chapter 7, Part 7.2 Lead) and:

- AS4361.1 - 2017, *Guide to hazardous paint management - Lead and other hazardous metallic pigments in industrial applications*; and
- AS4361.2 - 2017, *Guide to hazardous paint management - Lead paint in residential, public and commercial buildings*.

Generally, when one or more tests from a building or portion of a building indicate that lead is present, the paint should be treated as lead paint. Further, a project should not be classified as free of lead unless all samples within the area are proven to be free of lead and the sampling is comprehensive.

Lead paint that is in sound condition, not directly accessible (e.g., over-painted with lead-free paint) and unlikely to be disturbed may not require any immediate action.

Area(s) of lead paint that are in poor condition (e.g., flaking, delaminating) should generally be removed along with any lead paint debris and associated dust.

Exposed area(s) of lead paint that are intact may be stabilised by over-painting with a lead-free paint, or by covering with a suitable encapsulant. Stabilisation can provide an interim to long-term solution to a lead paint hazard.

The lead paint removal method and control measures adopted should be determined by risk assessment and a detailed knowledge of the workplace and proposed use / activities.

Exposure to airborne lead must be maintained below the relevant SWA exposure standards pertaining to lead. The SWA 8-hour Time Weighted Average (TWA) exposure standard for lead (inorganic dusts and fumes) is 0.05 mg/m<sup>3</sup>. Other exposure standards apply for substances such as lead chromate.

Air monitoring for lead may be required during lead paint remediation works based on risk assessment and the requirements to maintain airborne lead levels below the abovementioned exposure standards.

At the completion of lead paint removal, a clearance inspection should be conducted by a Competent Person. The Competent Person should determine the requirements for clearance including any air monitoring or sample analysis that may be required.

Lead paint waste should be assessed and classified for disposal in accordance with EPA (2014) which indicates:

- Waste contaminated with lead (including lead paint waste) from residential premises or educational or child care institutions is pre-classified as general solid waste (non-putrescible); and
- Lead paint waste arising otherwise than from residential premises or educational or child care institutions is pre-classified as hazardous waste.

Based on correspondence with the NSW EPA DP understands that EPA (2014) does not consider AS4361.1 - 2017 or AS4361.2 - 2017, including the definition of lead paint therein, for waste classification assessment. As such, these standards have no bearing on how waste is classified in NSW.

All disposal receipts should be retained.

## 6.6 Lead Dust

Laboratory analysis results for lead dust should be taken as an approximate indication of site conditions only since sampling is limited and the concentration of lead in dust may vary considerably between locations within the same general area.

No recognised Australian guidelines have been identified for the direct assessment of lead dust concentrations in ceiling cavities. Notwithstanding this, AS4361.2-1998 *Guide to Lead Paint Management, Part 2: Residential and Commercial Buildings* (superseded) outlined acceptance limits for lead in surface dust after lead paint management activities. These limits were:

- Interior floors: 1 mg/m<sup>2</sup> (as lead).
- Interior window sills: 5 mg/m<sup>2</sup> (as lead); and
- Exterior surfaces: 8 mg/m<sup>2</sup> (as lead).

The United States Environmental Protection Authority (US EPA) 40 CFR Part 745 *Lead; Identification of Dangerous Levels of Lead; Final Rule* identifies the following clearance standards following abatement:

- Floors - 40 µg/ft<sup>2</sup> (~0.43 mg/m<sup>2</sup>) lead;
- Interior Window sills - 250 µg/ft<sup>2</sup> (~2.7 mg/m<sup>2</sup>) lead; and
- Window troughs - 400 µg/ft<sup>2</sup> (~4.3 mg/m<sup>2</sup>) lead.

The above acceptance limits may be used as a guide to assessing lead concentrations in settled dust. As a precaution, and due to the nature of the Site, a lead concentration of 0.5 mg/m<sup>2</sup> has been used to identify potentially hazardous conditions in this assessment.

Where the concentration of lead in dust exceeds 0.5 mg/m<sup>2</sup> appropriate control and / or remedial measures may need to be identified via risk assessment and with a detailed knowledge of the workplace and proposed use/activities.

Where ceiling spaces and similar cavities are effectively enclosed and provide very limited or no opportunity for lead dust to enter occupied areas, the dust may typically remain in place. In such a case, access to the cavities should be suitably restricted and all entrances signposted with appropriate warning signs.

Any personnel required to enter building cavities or other areas containing elevated concentrations of lead in dust should undertake an appropriate risk assessment and develop a SWMS for the work. The SWMS must identify controls that ensure the risk of exposure to lead and environmental contamination remains at an acceptable level for the personnel entering the area and for occupants of the building and surrounds.

Consideration should be given to removal of lead containing dust including when:

- There is a significant risk of the lead entering occupied areas;



- Significant disturbance of lead dust is likely due to maintenance, refurbishment, demolition or other reason(s); or
- Removal is a reasonably practical means of eliminating the hazard.

Removal of lead dust should be undertaken by a suitably qualified and experienced removalist.

The lead dust removal method and control measures adopted should be determined by risk assessment and a detailed knowledge of the workplace and proposed use/activities.

Exposure to airborne lead must be maintained below the relevant SWA exposure standards pertaining to lead. The SWA 8-hour TWA exposure standard for lead (inorganic dusts and fumes) is 0.05 mg/m<sup>3</sup>.

Air monitoring for lead may be required based on the results of risk assessment and the requirement to maintain airborne lead concentrations below the abovementioned exposure standard(s).

At the completion of lead dust removal, a clearance inspection should be conducted by a Competent Person. The Competent Person should determine the requirements for clearance including any air monitoring or sample analysis that may be required.

Lead waste should be assessed and classified for disposal in accordance with EPA (2014).

All disposal receipts should be retained.

## 7. Limitations

Douglas Partners (DP) has prepared this report (or services) for this project at Hastings Secondary College – Port Macquarie Campus as a variation to *Standard Form Agreement SINSW000285/19 – Geotechnical Investigation Hastings Secondary College Upgrade* with DoE made on 2 December 2019, and in accordance with DP's proposal PMQ190074 dated 6 March 2020 and acceptance received from Roman Pilch of DoE via email on 17 March 2020.

This report is provided for the exclusive use of DoE for this project only and for the purposes as described in the report. It should not be used by or relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the conditions on the Site only at the specific inspection, sampling and/or testing locations, and then only to the extent practicable and safely accessible at the time the work was carried out. Site conditions may change after DP's field inspection, sampling and testing has been completed.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be affected by undetected variations in site conditions across



the Site between and beyond the inspection, sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.

Although the sampling plan adopted for this investigation is considered appropriate to achieve the stated project objectives, there are necessarily parts of the Site that have not been inspected, sampled and/or tested. This is either due to undetected variations in conditions or to budget constraints (as discussed above), or to parts of the Site being inaccessible or unavailable, or to occupants, furnishings or stored items preventing access. It is therefore considered possible that HBM, including asbestos, may be present in unobserved or untested parts of the Site, between and beyond the inspection, sampling and testing locations, and hence no warranty can be given that all HBM have been identified.

Inspections are limited to areas that are safely accessible at the time of the inspection without undue damage to building finishes or disturbance of occupants. Inspections exclude hidden and inaccessible locations such as within building cavities, voids and enclosed sections of risers/shafts as well as materials encased within the building structure or located below the exposed ground surface (e.g., pipes, drains and formwork). In addition, residual asbestos materials (e.g., asbestos lagging to pipes and vessels) may remain undiscovered below newer, asbestos-free materials (e.g., preformed SMF insulation). Such residual asbestos materials may not be identified without extensive intrusive investigation and / or dismantling / demolition work if at all.

Any disturbance of building materials, such as during renovation, maintenance or demolition work, may reveal additional HBM.

Limitations apply to the laboratory analytical methods used. For example, it can be very difficult or impossible to detect the presence of asbestos in some bulk materials (e.g., vinyl tiles) using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the small length or diameter of asbestos fibres present in the material or attributed to the fact that very fine fibres have been dispersed individually throughout the material.

While work is undertaken in a professional manner the nature of HBM and the limitations of the method(s) used mean that we cannot guarantee that all HBM or issues of concern have been identified. This report should therefore not be considered a definitive account of all HBM that may be present at the Site.

DP personnel are not licenced or accredited quantity surveyors. Any quantities quoted in this report are provided for general guidance only and should not be relied upon. The services of a licenced quantity surveyor should be engaged in order to determine reliable quantities.

The recommendations and conclusions contained in this report shall not abrogate a person of their responsibility to work in accordance with statutory requirements, codes of practice, standards, guidelines, safety data sheets, work instructions or industry best practice.

The contents of this report do not constitute formal design components such as are required, by the Health and Safety Legislation and Regulations, to be included in a Safety Report specifying the hazards likely to be encountered during construction and the controls required to mitigate risk. This design process requires risk assessment to be undertaken, with such assessment being dependent upon factors relating to likelihood of occurrence and consequences of damage to property and to life. This, in turn, requires project data and analysis presently beyond the knowledge and project role respectively of DP. DP may be able, however, to assist the client in carrying out a risk assessment of potential hazards contained in the Comments section of this report, as an extension to the current scope of works, if so requested, and provided that suitable additional information is made available to DP. Any such risk assessment would, however, be necessarily restricted to the environmental components set out in this report and to their application by the project designers to project design, construction, maintenance and demolition.

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**Douglas Partners Pty Ltd**

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## Appendix A

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About This Report

Site and Building Plans

# About this Report

# Douglas Partners



## Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

## Copyright

This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

## Borehole and Test Pit Logs

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

## Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

- In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;

- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at the time of construction as are indicated in the report; and
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

## Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

# *About this Report*

## **Site Anomalies**

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

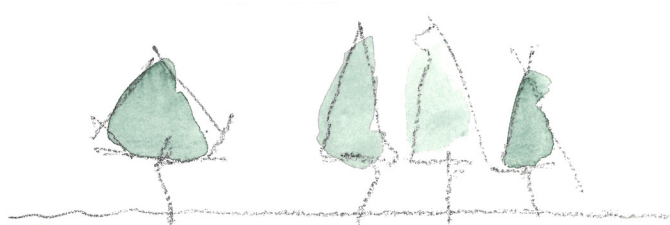
## **Information for Contractual Purposes**

Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

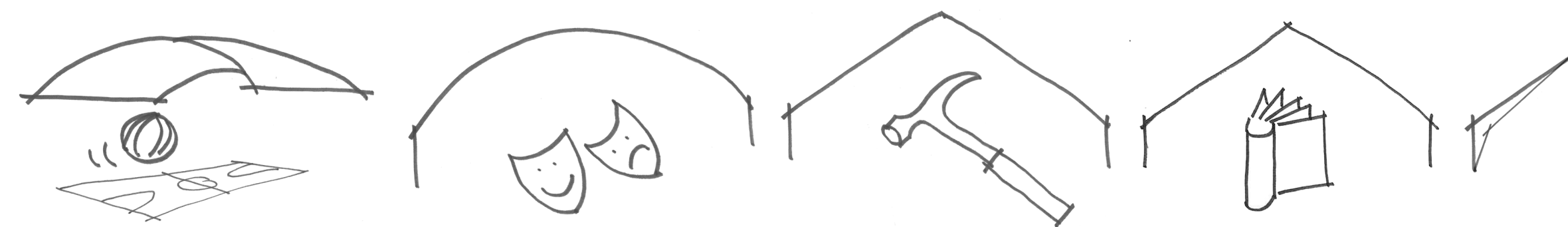
## **Site Inspection**

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.





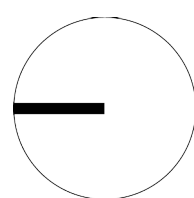
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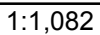
LEGEND

- = NEW BUILD
- = REFURBISHMENT

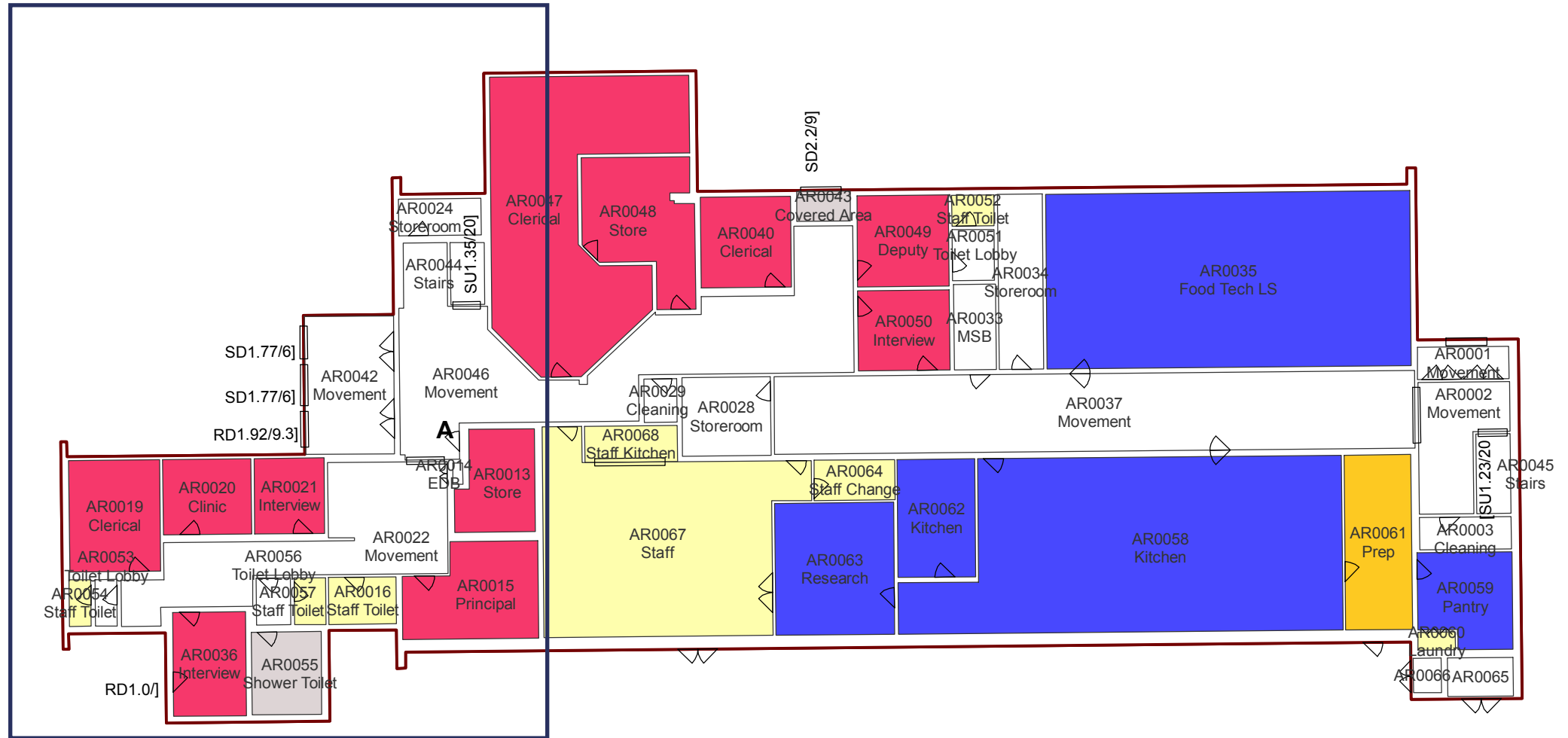
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8364 - Hastings Secondary College Port Macquarie Campus  
General Learning/Administration (B00A) - Ground Floor (Room Function)



Area to be inspected  
by Douglas Partners

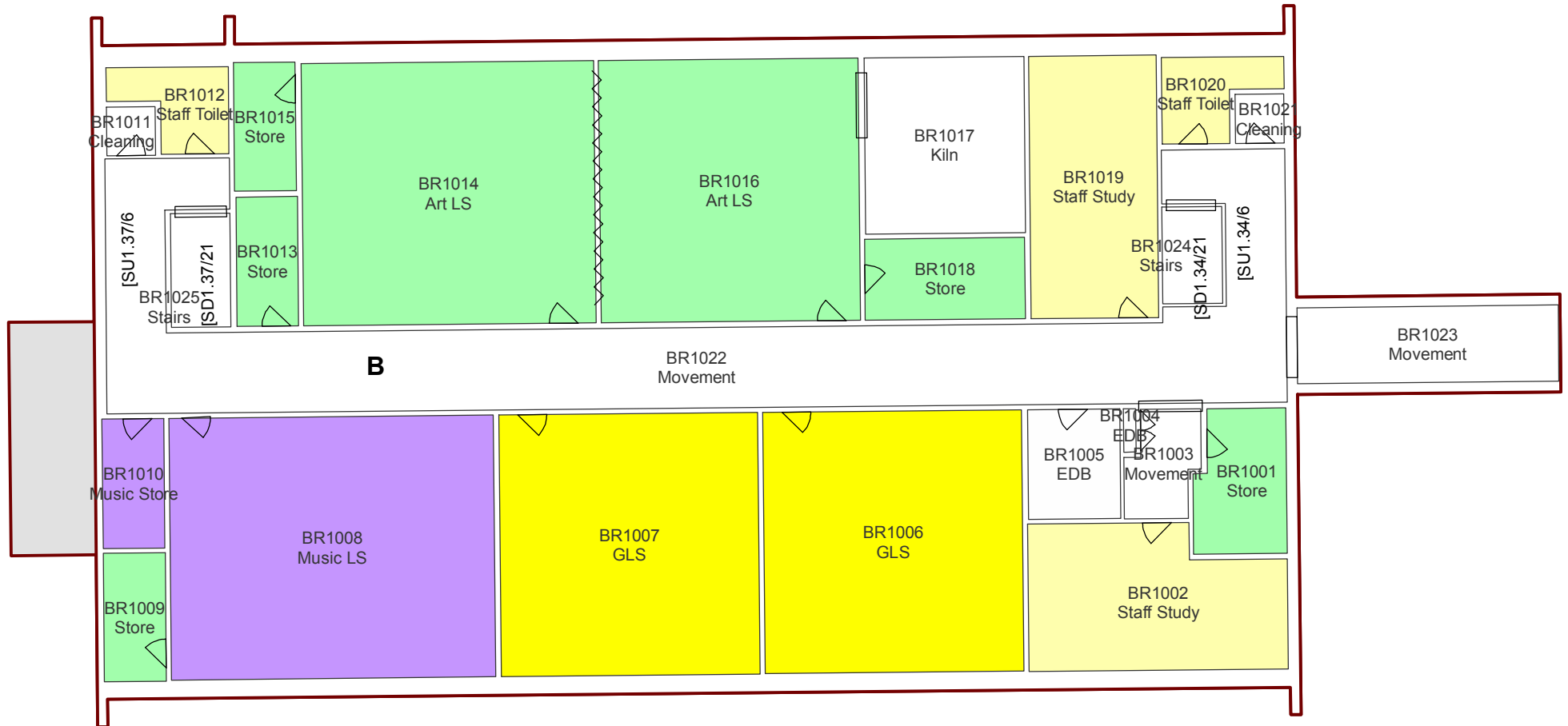




8364 - Hastings Secondary College Port Macquarie Campus  
Art/Music (B00B) - Ground Floor (Room Function)



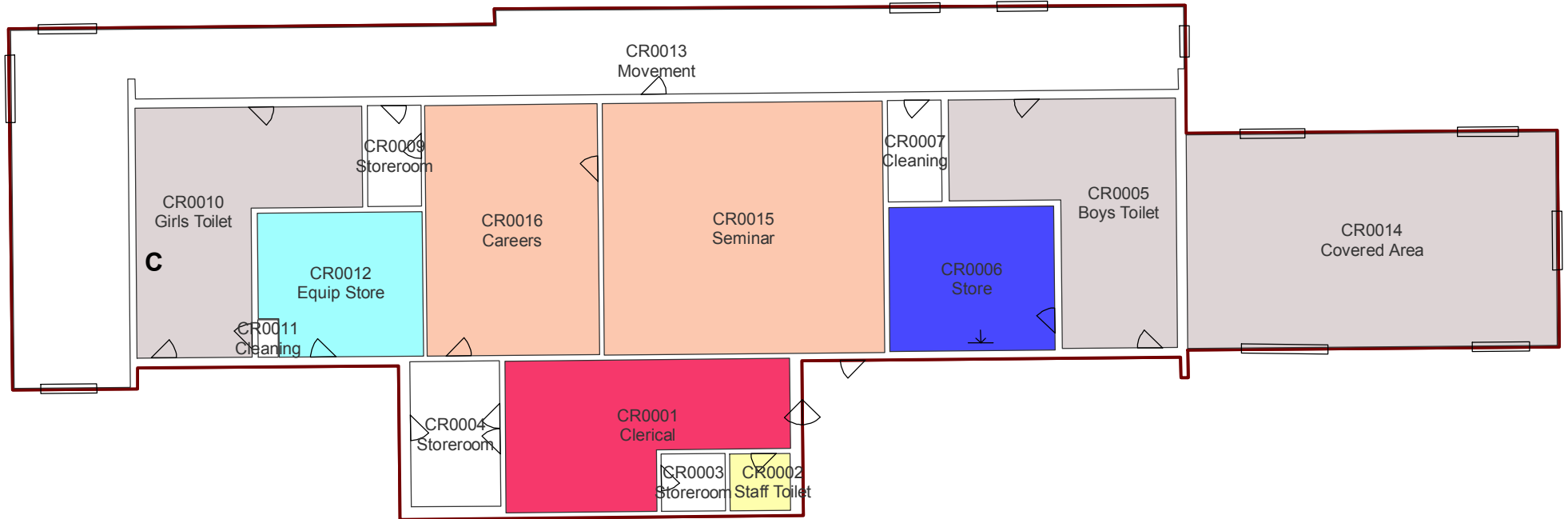
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Art/Music (B00B) - 1st Floor (Room Function)



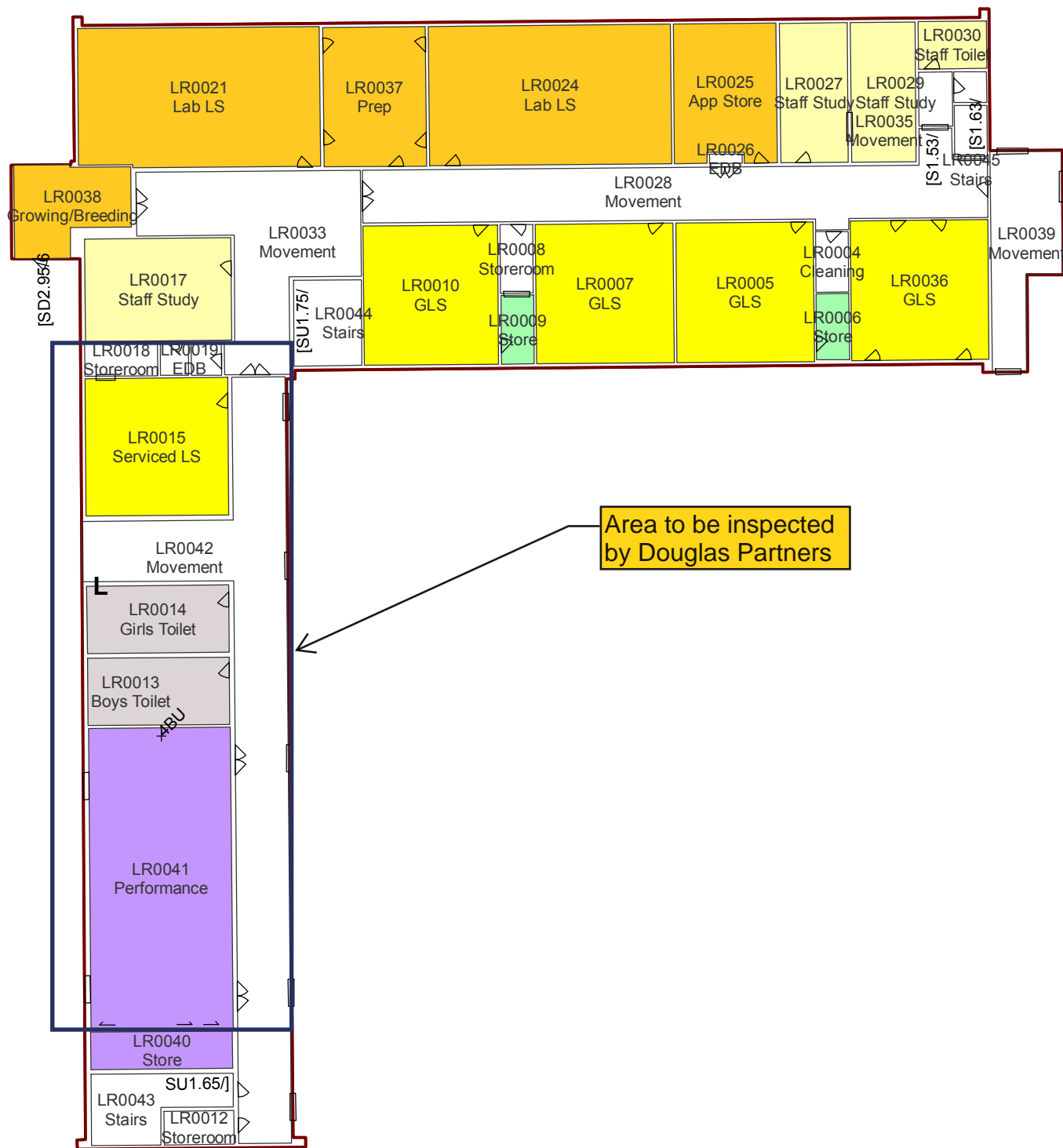
8364 - Hastings Secondary College Port Macquarie Campus  
Pupil Facilities (B00C) - Ground Floor (Room Function)



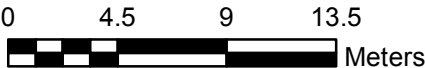
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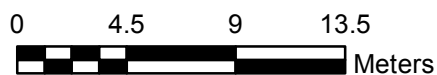
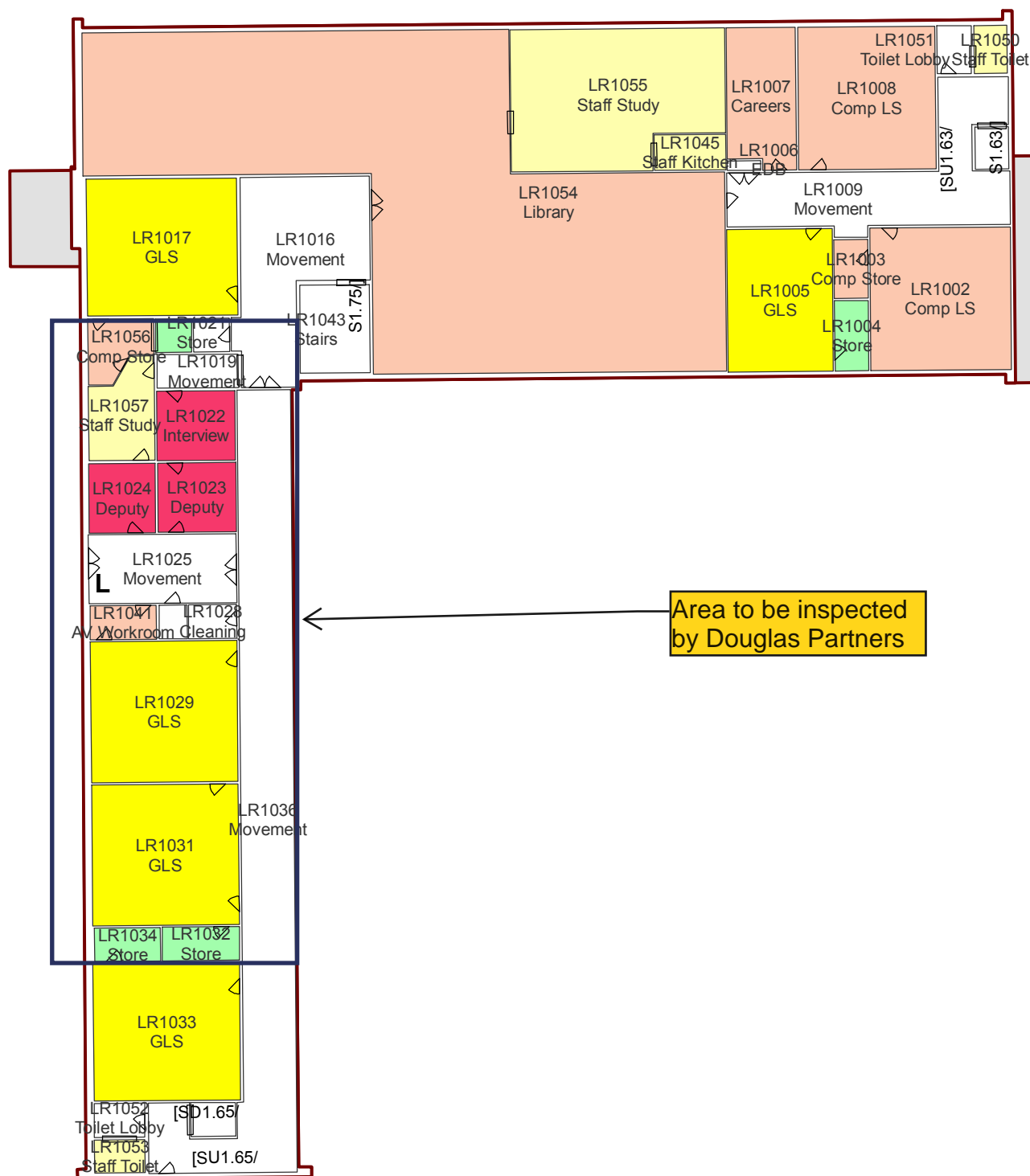
8364 - Hastings Secondary College Port Macquarie Campus  
Science/Library (B00L) - Ground Floor (Room Function)



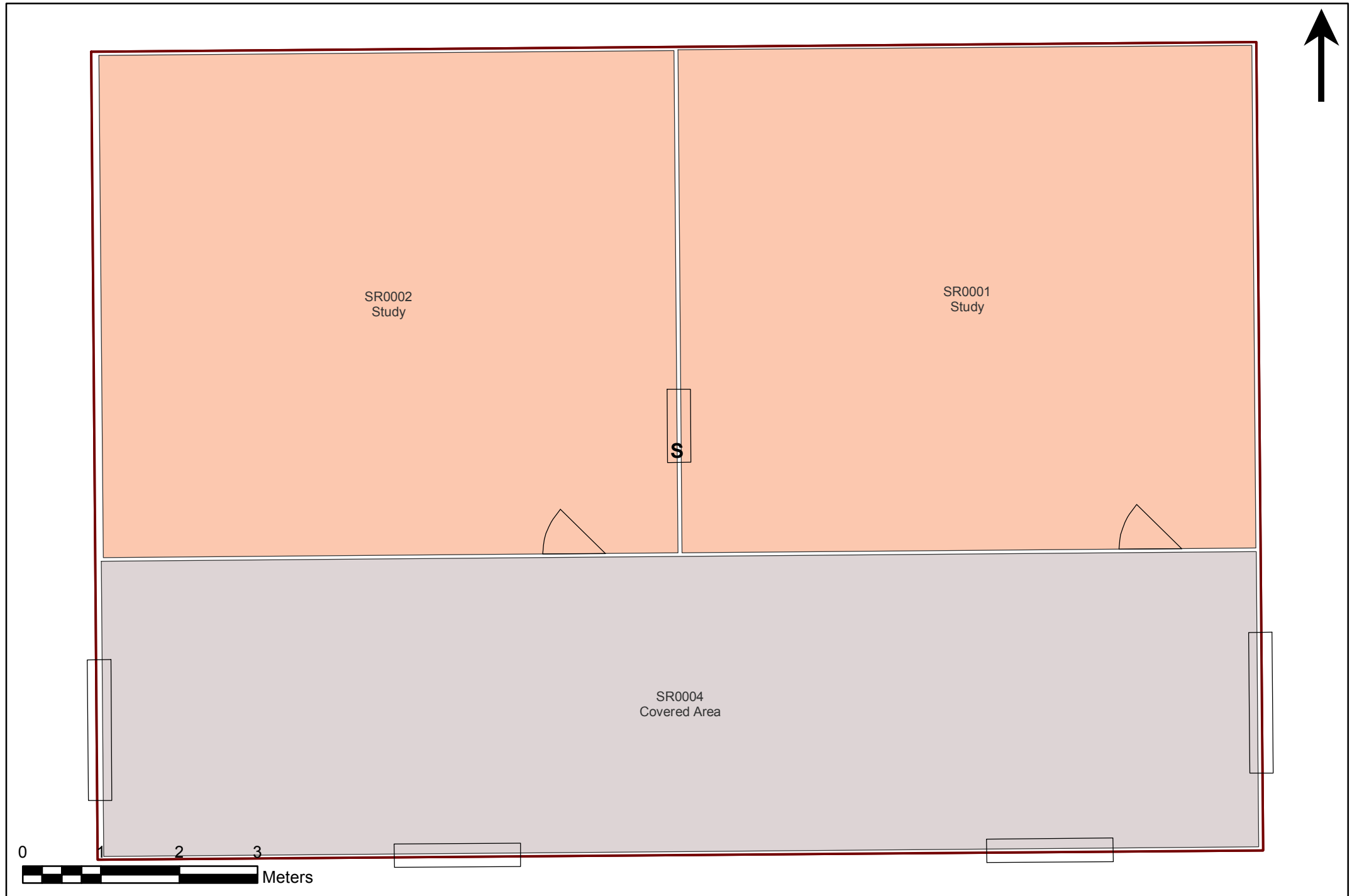
Area to be inspected  
by Douglas Partners



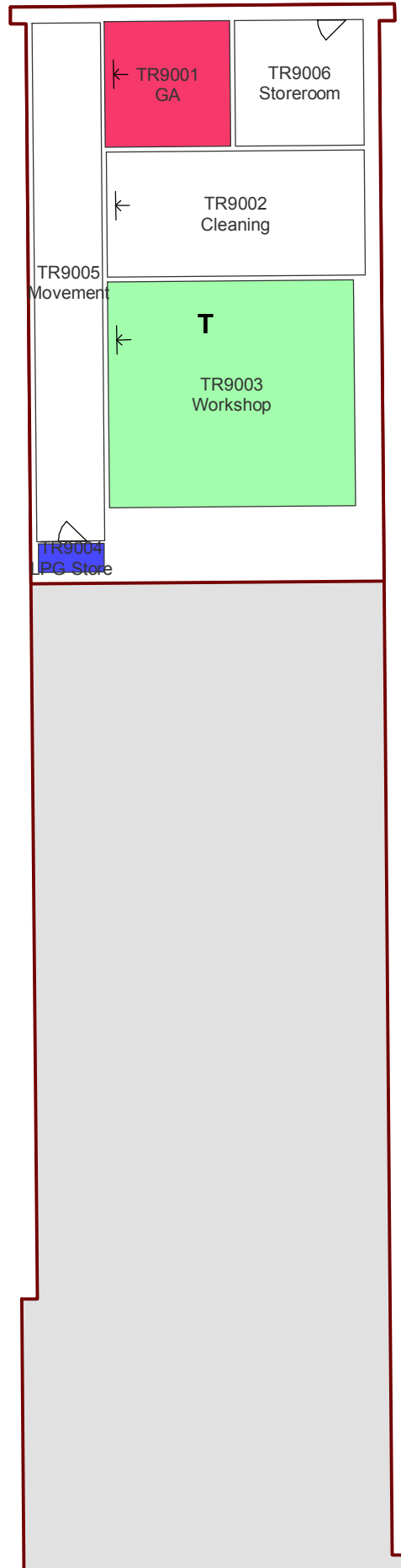
8364 - Hastings Secondary College Port Macquarie Campus  
Science/Library (B00L) - 1st Floor (Room Function)



8364 - Hastings Secondary College Port Macquarie Campus  
Pupil Facilities (B00S) - Ground Floor (Room Function)

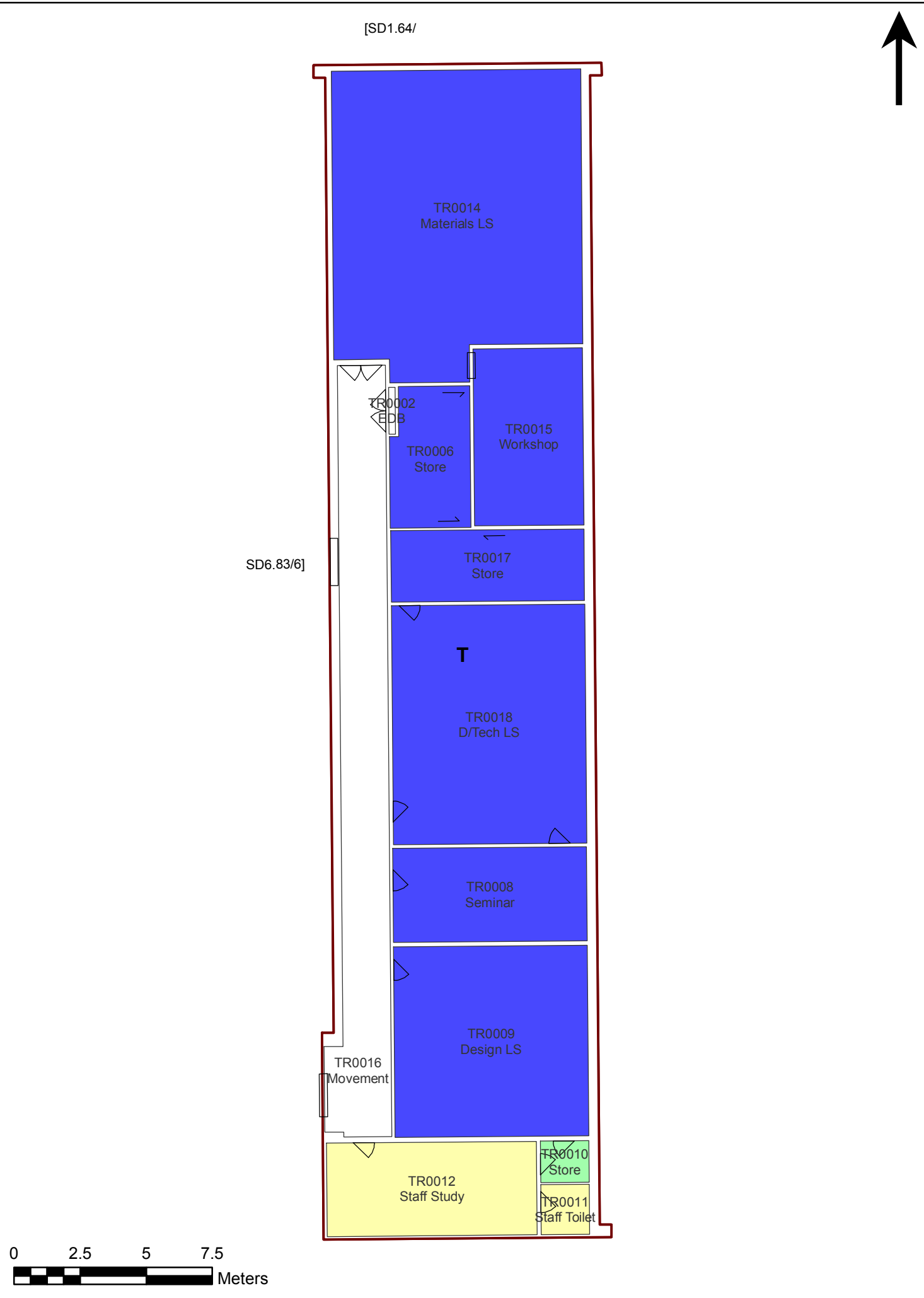


8364 - Hastings Secondary College Port Macquarie Campus  
Technological & Applied Studies (B00T) - Basement 1 (Room Function)



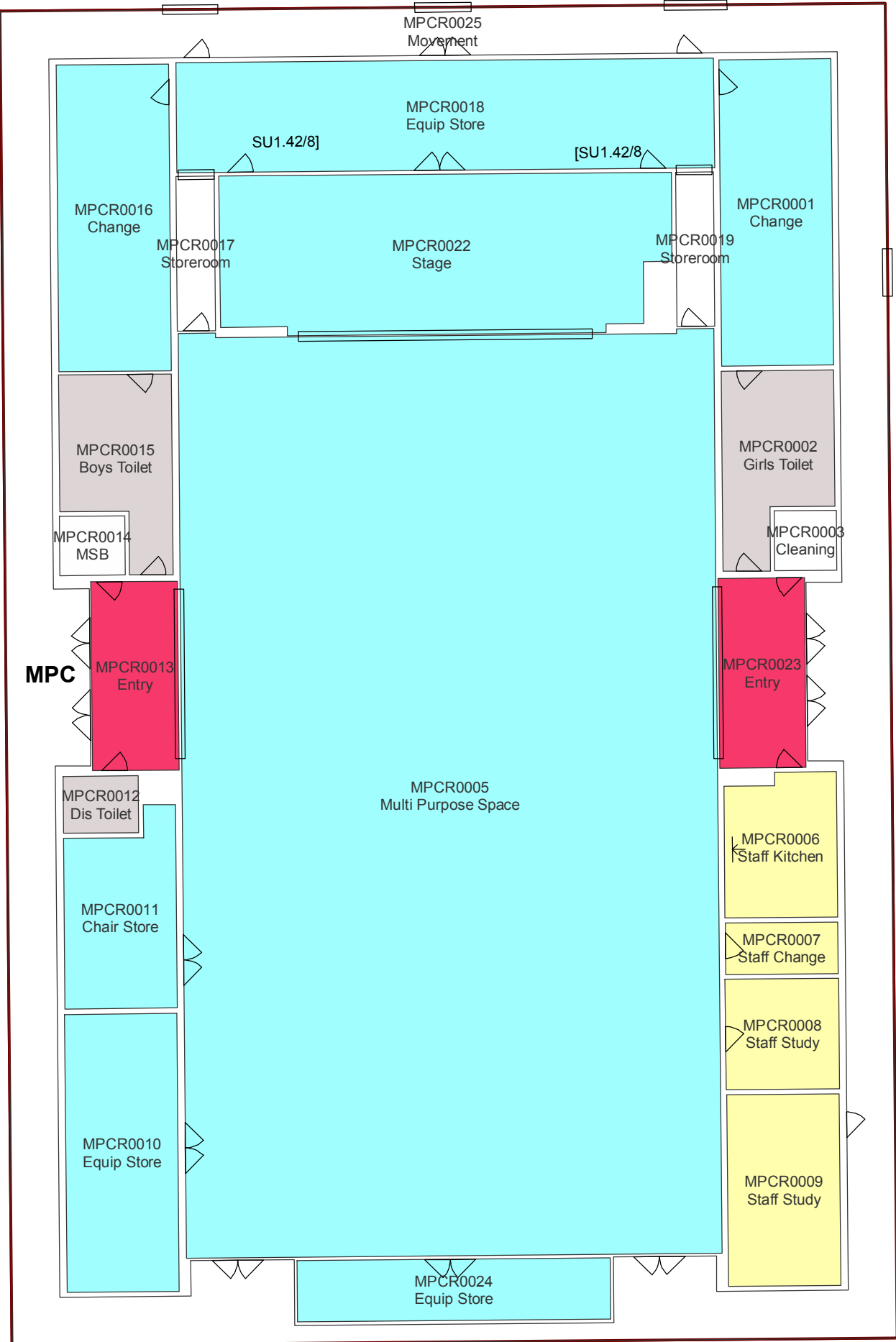
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Meters

8364 - Hastings Secondary College Port Macquarie Campus  
Technological & Applied Studies (B00T) - Ground Floor (Room Function)

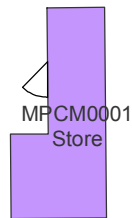
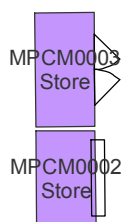




8364 - Hastings Secondary College Port Macquarie Campus  
Multi Purpose Facilities (BMPC) - Ground Floor (Room Function)



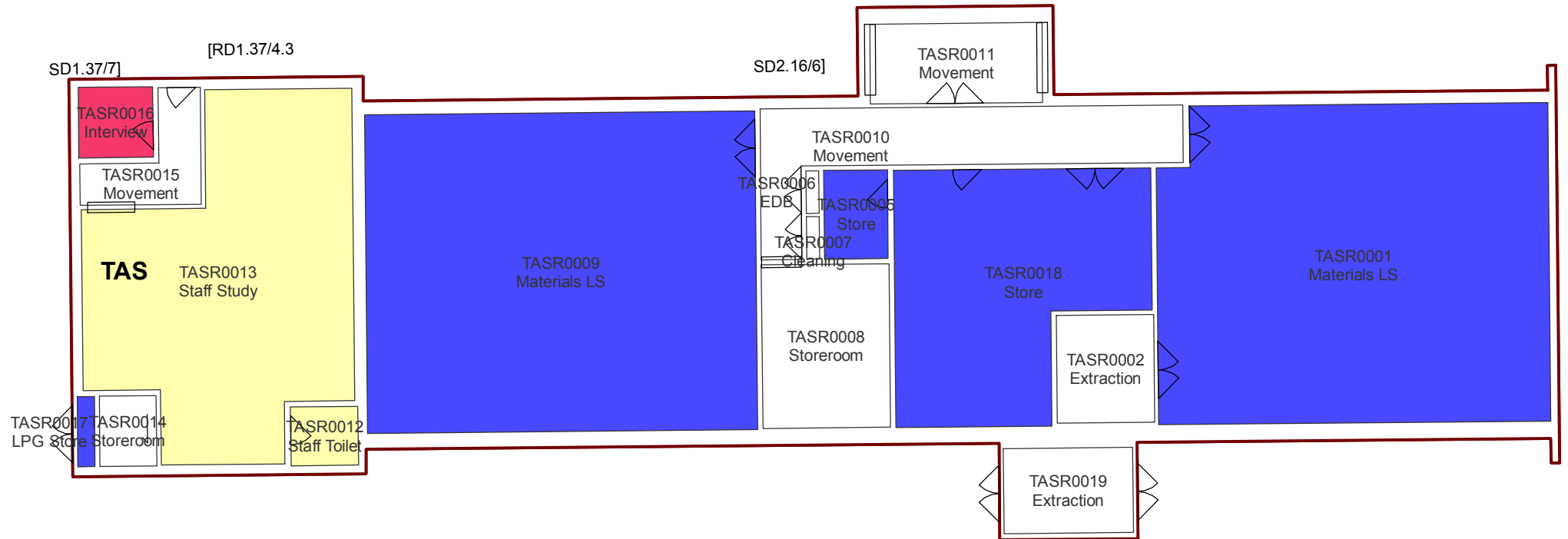
8364 - Hastings Secondary College Port Macquarie Campus  
Multi Purpose Facilities (BMPC) - Ground Floor Mezzanine (Room Function)



**MPC**



8364 - Hastings Secondary College Port Macquarie Campus  
Technological & Applied Studies (BTAS) - Ground Floor (Room Function)



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## **Appendix B**

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B00A - Register and Plates

DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00A	AR0013	room in general	materials in general	N/A	inaccessible area	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible rooms (keys) - hazardous material identified in DoE register and assumed to remain present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00A	AR0013	ceiling	vermiculite	N/A	inaccessible area	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material. The DoE asbestos register indicates that limited sampling and analysis has previously been undertaken. Proceed with caution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00A	AR0014	room in general	materials in general	N/A	inaccessible area	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible rooms (keys) - hazardous material identified in DoE register and assumed to remain present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00A	AR0014	electrical panel(s)	electrical backing board(s)	not provided in DoE register	asbestos (assumed)	0	1	1	1	1	1	5	Low	N/A	Inaccessible rooms (keys) - hazardous material identified in DoE register and assumed to remain present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00A	AR0015	window sill	fibre cement board	not provided in DoE register	asbestos detected by analysis	1	0	1	3	2	1	8	Low	2	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	AR0015	ceiling	vermiculite	AR0015-A01	no asbestos detected by analysis, SMF detected	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	AR0015	southwest corner, building box	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00A	AR0016	toilet divider	fibre cement	AR0016-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00A	AR0019	base of sink	bituminous lining	AR0019-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00A	AR0019	window	glazing putty	AR0019-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00A	AR0019	hot and boiling water unit(s)	insulation	N/A	assumed SMF or foam insulation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	AR0020	base of sink	bituminous lining	AR0020-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00A	AR0022	floor of waiting area to northeast, below carpet	fibre cement	AR0022-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00A	AR0022	ceiling, eastern end of room	vermiculite	AR0022-A01	no asbestos detected by analysis, SMF detected	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	AR0042	ceiling	fibre cement sheeting	not provided in DoE register	asbestos detected by analysis	1	0	1	2	2	0	6	Low	7	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).

DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00A	AR0042	north side of room, window frame set	glazing putty	B00A-EXT-A03	no asbestos detected by analysis, <b>SMF detected</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	Avoid disturbance and implement controls to prevent exposure and dispersal during any planned disturbance (e.g. maintenance, refurbishment and demolition work). Classify material for disposal, if required, in accordance with the NSW EPA Waste Classification Guidelines.
B00A	AR0042	southeast corner, brick wall, expansion gap	joint mastic	B00A-EXT-A05	<b>asbestos detected by analysis</b>	0	1	2	2	2	0	7	Low	9	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	AR0046	ceiling	vermiculite	AR0046-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00A	AR0047	ceiling and/or upper walls	vermiculite	refer AR0046-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00A	AR0055	ceiling	fibre cement	AR0055-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00A	AR0055	hot water unit	insulation	N/A	<b>assumed SMF</b> or foam insulation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	first floor, room above AR0046	window frame	glazing putty	Above AR0046-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00A	first floor, room above AR0046	window frame	infill panels	N/A	<b>asbestos (assumed)</b>	1	1	1	3	2	1	9	Low	11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	exterior	exterior, northwest of building (near flagpole), expansion gap in paving	bitumastic	B00A-EXT-A01	no asbestos detected by analysis, <b>SMF detected</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	Avoid disturbance and implement controls to prevent exposure and dispersal during any planned disturbance (e.g. maintenance, refurbishment and demolition work). Classify material for disposal, if required, in accordance with the NSW EPA Waste Classification Guidelines.
B00A	exterior	exterior, northwest of building (near AR0024), expansion gap in paving	bitumastic	B00A-EXT-A02	no asbestos detected by analysis, <b>SMF detected</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13	Avoid disturbance and implement controls to prevent exposure and dispersal during any planned disturbance (e.g. maintenance, refurbishment and demolition work). Classify material for disposal, if required, in accordance with the NSW EPA Waste Classification Guidelines.
B00A	exterior	adjacent north AR0020, between window frame and brick wall	putty	B00A-EXT-A04	<b>asbestos detected by analysis</b>	0	3	2	2	2	0	9	Low	14	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	exterior	paving outside AR0036, expansion gap	bitumastic	B00A-EXT-A06	<b>asbestos detected by analysis</b>	0	1	2	2	2	0	7	Low	15	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	exterior	base of brick wall outside AR0015, expansion gap	bitumastic	B00A-EXT-A07	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00A	exterior	eave linings generally	fibre cement	not provided in DoE register	<b>asbestos detected by analysis</b>	1	1	1	2	2	0	7	Low	refer 16 and 17	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	exterior	eave lining adjacent wheelchair ramp (north of AR0019 and AR0020)	fibre cement	B00A-EXT-A08	<b>asbestos detected by analysis</b>	1	1	1	2	2	0	7	Low	16	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	exterior	fibre cement sheeting, upper eave south west corner	fibre cement	B00A-EXT-A09	<b>asbestos detected by analysis</b>	1	1	1	2	2	0	7	Low	17	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).

DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Listings Secondary College, Port Macquarie Campus						Asbestos Risk Assessment									Photo No.	Summary Comment/Recommendation
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority			
B00A	exterior	fibre cement sheeting lower eave south west corner	fibre cement	B00A-EXTA10	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Caution advised due to possible local replacement of materials and asbestos being identified in other eave linings in this building.
B00A	throughout	brick walls, expansion gaps	joint mastic	refer B00A-EXT-A05	asbestos (assumed)	0	1	2	2	2	0	7	Low	refer 9	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00A	throughout	between window frames and brick wall	putty	refer B00A-EXT-A04	asbestos (assumed)	0	3	2	2	2	0	9	Low	refer 14	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00A	exterior	paving	bitumastic	refer B00A-EXT-A06	may contain asbestos	0	1	2	2	2	0	7	Low	refer 15	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00A	AR0019	walls	cream with underlying green paint	spot test 1 and B00A-LP01	lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>	
B00A	AR0019	door frame	cream with underlying white paint	spot test 2	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>	
B00A	AR0022	brick wall outside AR0056	white paint	spot test 3	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
B00A	AR0022	door frame to AR0056	cream with underlying green paint	spot test 4	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
B00A	AR0016	wall	white paint	spot test 5	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
B00A	AR0016	door frame, internal side	white paint	spot test 6	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
B00A	AR0044	handrail	grey and underlying white paint	spot test 7 and B00A-LP07	non-lead paint (≤0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.	

DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment									
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Comment/Recommendation
B00A	AR0046	concrete column	cream and underlying olive green paint	spot test 8 and B00A-LP08	non-lead paint (≤0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.
B00A	AR0042	window frame	white paint	spot test 9 and B00A-LP09	lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>
B00A	rooms and areas in general	materials in general	paints	refer B00A-LP01 and B00A -LP09	may comprise lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>
B00A	rooms and areas in general	fluorescent light fittings in general, capacitors	insulating oil	N/A	PCB (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	<p>Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Remove PCB containing capacitors prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p>



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## Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00A	rooms and areas in general	ceiling cavities	settled dust/debris	N/A	elevated lead (≥0.5 mg/m <sup>2</sup> ) assumed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Ensure access to contaminated building cavities is adequately restricted and entry is only made under controlled conditions.</p> <p>Remove contamination if reasonably practicable to do so and prior to any substantive disturbance.</p> <p>Implement appropriate controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition work).</p> <p>Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.</p>
B00A	rooms and areas in general	ceiling cavity	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p>
B00A	rooms and areas in general	sheeted and framed walls	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p>
B00A	building subfloor	throughout	materials in general	N/A	no asbestos identified visually however access limited	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4, 18	<p>Caution is advised due to limited access available throughout building subfloor and presence of substantial construction/demolition waste. Asbestos may be present in various forms such as fibre cement debris and fibre cement packing materials. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p>
B00A	rooms and areas in general	throughout	flashing (where present)	refer B00B spot test 17 and B00L spot test 10	lead (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Reinspect condition on a regular basis.</p> <p>Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p> <p>Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.</p>



Photograph 1: B00A, rooms and areas in general, fluorescent light fittings in general, capacitors, insulating oil, PCB (assumed).



Photograph 2: B00A, AR0015, window sill, fibre cement board, asbestos detected by analysis.


 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 1
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	<b>CLIENT: NSW Department of Education</b>		DATE: Mar-20



Photograph 3: B00A, AR0015, ceiling, vermiculite, no asbestos detected by analysis, SMF detected.



Photograph 4: B00A, building subfloor, throughout, materials in general, no asbestos identified visually however access limited.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 2
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20






Photograph 5: B00A, AR0019, hot and boiling water unit(s), insulation, assumed SMF or foam insulation.



Photograph 6: B00A, AR0022, ceiling, eastern end of room, vermiculite, no asbestos detected by analysis, SMF detected.


 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 3
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20



Photograph 7: B00A, AR0042, ceiling, fibre cement sheeting, asbestos detected by analysis.



Photograph 8: B00A, AR0042, north side of room, window frame set, glazing putty, no asbestos detected by analysis, SMF detected.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 4
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20





Photograph 9: B00A, AR0042, southeast corner, brick wall, expansion gap, joint mastic, asbestos detected by analysis.



Photograph 10: B00A, AR0055, hot water unit, insulation, assumed SMF or foam insulation.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 5
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20



Photograph 11: B00A, first floor, room above AR0046, window frame, infill panels, asbestos (assumed).



Photograph 12: B00A, exterior, exterior, northwest of building (near flagpole), expansion gap in paving, bitumastic, no asbestos detected by analysis, SMF detected.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 6
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20





Photograph 13: B00A, exterior, exterior, northwest of building (near AR0024), expansion gap in paving, bitumastic, no asbestos detected by analysis, SMF detected.



Photograph 14: B00A, exterior, adjacent north AR0020, between window frame and brick wall, putty, asbestos detected by analysis.

 <b>Douglas Partners</b> <i>Geotechnics   Environment   Groundwater</i>	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 7
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20






Photograph 15: B00A, exterior, paving outside AR0036, expansion gap, bitumastic, asbestos detected by analysis.



Photograph 16: B00A, exterior, eave lining adjacent wheelchair ramp (north of AR0019 and AR0020), fibre cement, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 8
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20



Photograph 17: B00A, exterior, fibre cement sheeting, upper eave south west corner, fibre cement, asbestos detected by analysis.



Photograph 18: B00A, building subfloor, throughout, materials in general, no asbestos identified visually however access limited.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 9
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20

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## Appendix C

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B00B - Register and Plates

DP Project No: 89754.01

## Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

Asbestos Register - BR Macquarie Campus						Asbestos Risk Assessment									Photo No.	Summary Comment/Recommendation
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority			
B00B	BR0019	ceiling	fibre cement sheet	not provided in DoE asbestos register	asbestos detected by analysis	1	1	2	1	2	1	8	Low	1	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00B	BR0020 / BR1023	eaves	assumed fibre cement sheeting	N/A	asbestos (assumed)	1	1	1	0	1	0	4	Low	2	Inaccessible area/material (height) - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.	
B00B	BR1004	electrical panel	resinous board	not provided in DoE asbestos register	asbestos (assumed)	0	1	1	1	1	1	5	Low	N/A	Inaccessible area/material (keys) - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.	
B00B	BR1012	ceiling	fibre cement sheet	not provided in DoE asbestos register	asbestos detected by analysis	1	1	2	2	2	1	9	Low	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00B	BR1020	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	2	2	2	1	9	Low	3	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00B	exterior	eave linings generally	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	0	1	0	4	Low	4	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00B	exterior	northern façade, typical concrete paving, expansion gap	bitumastic	B00B-EXT-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.	
B00B	exterior	northern facade, to end of window frames	glazing putty	B00B-EXT-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.	
B00B	exterior	southern façade, typical concrete paving, expansion gap	bitumastic	B00B-EXT-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.	
B00B	exterior	northern façade, expansion gap at base of brick wall	bitumastic	B00B-EXT-A04	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.	
B00B	exterior	southeast corner, wheelchair ramp, floor	fibre cement board	N/A	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.	
B00B	BR0001	ceiling	vermiculite	BR0001-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.	
B00B	BR0002	ceiling	vermiculite	BR0002-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.	
B00B	BR0002	between window frame and terrazzo sill	putty	BR0002-A02	asbestos detected by analysis	1	2	2	1	2	1	9	Low	similar to 5	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00B	BR0003	ceiling	vermiculite	BR0003-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.	

DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00B	BR0003	window frame	glazing putty	BR0003-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0004	ceiling	vermiculite	BR0004-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0004	teacher's desk	moulded sink	refer BR0012-A05	<b>SMF (assumed)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR0004	gas and water main cupboard	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR0005	ceiling	vermiculite	BR0005-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0005	base of sink	bituminous lining	BR0005-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0006	ceiling	vermiculite	BR0006-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0008	interior of room	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR0009	north and west wall, enclosed building boxes	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR0011	hot water unit	internal insulation	N/A	<b>SMF (assumed)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR0012	north wall, enclosed T-shape building box	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR0012	ceiling	vermiculite	BR0012-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0012	window frame	glazing putty	BR0012-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0012	window sill, between terrazzo panels	putty	BR0012-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0012	windows, between window frame and terrazzo panels	putty	BR0012-A04	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0012	teacher's desk	moulded sink	BR0012-A05	no asbestos detected by analysis, <b>SMF detected</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR0013	interior of room	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR0013	ceiling	vermiculite	refer BR0012-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - assumed non-asbestos based on DoE asbestos register and analysis results for vermiculite samples obtained elsewhere in this building. Consider confirmatory sampling and analysis prior to disturbance.



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Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00B	BR0014	interior of room	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR0014	ceiling	vermiculite	refer BR0012-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - assumed non-asbestos based on DoE asbestos register and analysis results for vermiculite samples obtained elsewhere in this building. Consider confirmatory sampling and analysis prior to disturbance.
B00B	BR0015	interior of room	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR0015	electrical panel	resinous board	not provided in DoE asbestos register	asbestos (assumed)	0	1	2	2	1	1	7	Low	N/A	Inaccessible area/material (keys) - Material assumed remain present based on DoE asbestos register. Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR0015	wall linings	fibre cement sheet	not provided in DoE asbestos register	asbestos detected by analysis	1	2	2	2	1	1	9	Low	N/A	Inaccessible area/material (keys) - Material assumed remain present based on DoE asbestos register. Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR0017	interior of room	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR0018	ceiling	vermiculite	BR0018-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0019	door frame	glazing putty	BR0019-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0019	aluminium door frame, between frame and wall	putty	refer BR0020-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0019	portion of infill panels (type1)	fibre cement	BR0019-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	refer 10	Proceed with caution due to use of mixed construction materials. Refer sample BR0019-A04 (asbestos detected by analysis).
B00B	BR0019	portion of infill panels (type 2)	fibre cement	BR0019-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	refer 10	Proceed with caution due to use of mixed construction materials. Refer sample BR0019-A04 (asbestos detected by analysis).
B00B	BR0019	portion of infill panels (type 3)	fibre cement	BR0019-A04	asbestos detected by analysis	1	1	1	2	2	0	7	Low	10	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR0020	aluminium door frame, between frame and wall	sealant	BR0020-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR0020 / BR1023	exterior brick wall, expansion gap	grey putty	BR0020-A02	asbestos detected by analysis	0	3	2	2	2	0	9	Low	11	Remove any loose material/debris and consider sealing in-situ material in place. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR1001	floor, below carpet	green/grey vinyl tiles with hessian reinforcement and fibrous backing (assumed)	refer BR1003-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (due storage and furnishings) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1002	window frame	glazing putty	BR1002-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.

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## Hazardous Building Materials (HBM) Register

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B00B	BR1002	building box adjacent to sink	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1002	underside of sink	bituminous lining	BR1002-A01	asbestos detected by analysis	1	1	2	2	2	1	9	Low	12	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR1002	floor, below carpet	green/grey vinyl tiles with hessian reinforcement and fibrous backing	refer BR1003-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1002	boiling water unit	internal insulation	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR1003	floor, below carpet	green/grey vinyl tiles with hessian reinforcement and fibrous backing	BR1003-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1004	interior of room	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1004	floor	vinyl tiles	not provided in DoE asbestos register	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1005	interior of room	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1006	floor, below carpet	green/grey vinyl tiles with hessian reinforcement and fibrous backing	BR1006-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1006	window sill, between terrazzo panels	pointing	BR1006-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1006	window, between window frame and sill	pointing	BR1006-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1007	floor, below carpet	green/grey vinyl tiles with hessian reinforcement and fibrous backing	BR1007-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1008	floor, below carpet	green/grey vinyl tiles with hessian reinforcement and fibrous backing	BR1008-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1008	window frame	grey/white glazing putty	BR1008-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1008	window frame	pink glazing putty	BR1008-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1008	eastern wall, below pin board	wall	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1010	interior of room	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance

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Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
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B00B	BR1011	ceiling	fibre cement sheet	refer BR1021-A01	asbestos (assumed)	1	1	2	2	1	1	8	Low	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR1011	building box	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1012	building boxes (x2)	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1013	interior of room	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1014	floor	blue vinyl sheeting	refer BR1016-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1014	north wall, red building box	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1015	southwest corner, building box	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1016	floor	blue vinyl sheeting	BR1016-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1016	south wall, building box	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1016	north, storm water pipe	fibre cement pipe (3m)	not provided in DoE asbestos register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material reported in DoE asbestos register but not identified during this inspection. Proceed with caution.
B00B	BR1017	green kiln	insulation	BR1017-A01	no asbestos detected by analysis, SMF detected	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR1017	grey kiln	insulation	BR1017-A02	no asbestos detected by analysis, SMF detected	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR1018	interior of room	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1019	ceiling	vermiculite	BR1019-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1019	floor, below carpet	green/grey vinyl tiles with hessian reinforcement and fibrous backing	refer BR1006-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1019	boiling water unit	internal insulation	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR1020	toilet, building boxes (x2)	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00B	BR1021	building box	internal material(s)	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires intrusive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance



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B00B	BR1021	ceiling	fibre cement sheeting	BR1021-A01	asbestos detected by analysis	1	1	2	2	1	1	8	Low	16	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR1021	top of ceiling	minor fibre cement sheeting debris	refer BR1021-A01	asbestos (assumed)	1	3	2	1	1	2	10	Moderate	17	Restrict access. Persons entering the area should undertake a risk assessment and implement suitable controls to prevent exposure. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR1022	floor, below carpet	vinyl tile	BR1022-A01 & A02	asbestos detected by analysis	1	1	1	1	2	1	7	Low	18	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	BR1023	typical window frame	glazing putty	BR1023-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1023	north end, door frame	glazing putty	BR1023-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00B	BR1023	floor below vinyl sheeting	possible vinyl tile	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	19	Inaccessible area/material (below vinyl sheeting) - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.

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						Asbestos Risk Assessment									Photo No.	Summary Comment/Recommendation
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority			
B00B	subfloor	ground surface	fibre cement fragment(s)	B00B-SF-A01	asbestos detected by analysis	1	3	3	1	0	2	10	Moderate	20	Restrict access. Persons entering the area should undertake a risk assessment and implement suitable controls to prevent exposure. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00B	building subfloor	throughout	materials in general	N/A	access limited	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	Caution is advised due to limited access available throughout building subfloor (due services and clearance in cavity) and presence of substantial construction/demolition waste. Asbestos may be present in various forms such as fibre cement debris and fibre cement packing materials. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.	
B00B	building in general	brick walls, expansion gap(s)	putty	refer BR0020-A02	asbestos (assumed)	0	3	2	2	2	0	9	Low	similar 11	Remove any loose material/debris and consider sealing in-situ material in place. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00B	building in general	interior, between window frames and terrazzo sill	putty	refer BR0002-A02	may contain asbestos	1	2	2	1	2	1	9	Low	similar 5	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00B	BR0002	exterior door frame	white/cream, paint	spot test 1 and BR0002-LP01	non-lead paint ( $\leq 0.1\%$ lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.	
B00B	BR0002	south wall	white/cream, paint	spot test 2 and BR0002-LP02	lead paint ( $>0.1\%$ lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.	
B00B	BR1022	eastern stairwell, ceiling	white/cream paint	spot test 3	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
B00B	BR1022	eastern stairwell, handrail	white paint	spot test 4	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
B00B	BR0004	north wall	blue and underlying white paint	spot test 5	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
B00B	BR0005	south wall	cream and underlying white paint	spot test 6	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
B00B	BR1012	north wall	cream and underlying white paint	spot test 7	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	

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B00B	BR1025	eastern side, concrete	cream and underlying white paint	spot test 8	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.
B00B	BR1025	handrail	white paint	spot test 9	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00B	BR1014	doorframe	underlying white/cream paints	spot test 10	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.
B00B	BR1016	north wall	cream paint	spot test 11	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00B	BR1007	south wall	white and underlying grey paint	spot test 12	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00B	exterior	northern façade, notice board	cream and underlying white paint	spot test 13 and B00B-EXT-LP01	lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.

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B00B	exterior	northern façade, timber seating	green and underlying cream paint	spot test 14 and B00B-EXT-LP02	lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>
B00B	exterior	northern façade, concrete slab	cream paint	spot test 15	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00B	exterior	western façade, covered walkway, timber post	green paint	spot test 16	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00B	rooms and areas in general	materials in general	paints	refer B00B-EXT-LP01, B00B-EXT-LP02 and BR0002-LP02	may comprise lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	refer 22, 23	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>
B00B	rooms and areas in general	fluorescent light fittings in general, capacitors	insulating oil	N/A	PCB (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	24	<p>Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Remove PCB containing capacitors prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p>
B00B	BR0021	ceiling cavity	settled dust/debris	BR0021-LD01	elevated lead (≥0.5 mg/m <sup>2</sup> )	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Ensure access to building cavity is adequately restricted and entry is only made under controlled conditions.</p> <p>Remove contamination if reasonably practicable to do so and prior to any substantive disturbance.</p> <p>Implement appropriate controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition work).</p> <p>Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.</p>

DP Project No: 89754.01

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment										
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Comment/Recommendation	
B00B	BR1011	ceiling cavity	settled dust/debris	BR1011-LD01	elevated lead (≥0.5 mg/m2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ensure access to building cavity is adequately restricted and entry is only made under controlled conditions.  Remove contamination if reasonably practicable to do so and prior to any substantive disturbance.  Implement appropriate controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition work).  Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.	
B00B	throughout	ceiling cavities in general	settled dust/debris	refer BR1011-LD01 and BR0021-LD01	elevated lead (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ensure access to building cavity is adequately restricted and entry is only made under controlled conditions.  Remove contamination if reasonably practicable to do so and prior to any substantive disturbance.  Implement appropriate controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition work).  Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.	
B00B	rooms and areas in general	ceiling cavity	insulation materials (e.g. to roof and top of ceiling including perforated ceiling tiles)	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00B	rooms and areas in general	sheeted and framed walls	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00B	exterior	northern façade, notice board	flashing	spot test 17	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25	Reinspect condition on a regular basis.  Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).  Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.	
B00B	rooms and areas in general	throughout	flashing (where present)	refer spot test 17	lead (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	similar 25	Reinspect condition on a regular basis.  Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).  Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.	



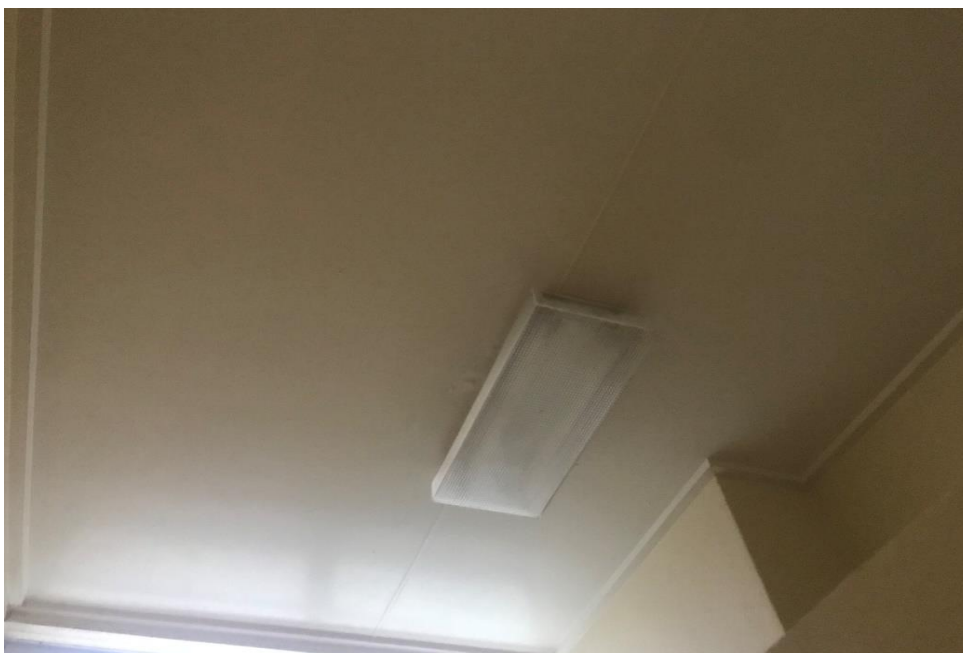
Photograph 1: B00B, BR0019, ceiling, fibre cement sheet, asbestos detected by analysis.



Photograph 2: B00B, BR0020 / BR1023, eaves, assumed fibre cement sheeting, asbestos (assumed).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 1
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20





Photograph 3: B00B, BR1020, ceiling, fibre cement sheeting, asbestos detected by analysis.

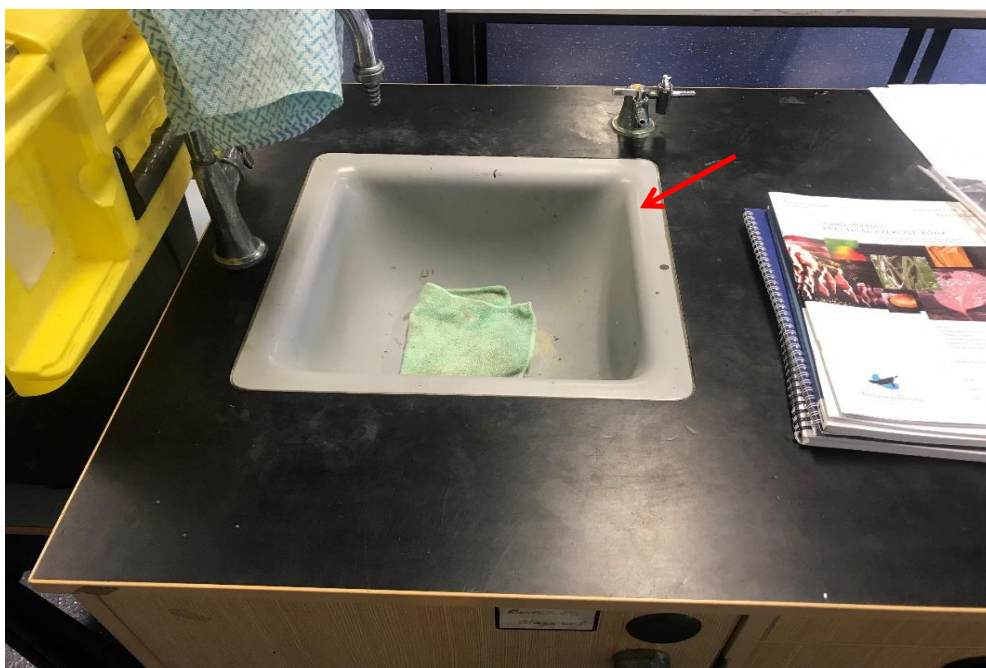


Photograph 4: B00B, exterior, eave linings generally, fibre cement sheeting, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 2
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20



Photograph 5: Photograph shown is similar to B00B, BR0002, between window frame and terrazzo sill, putty, asbestos detected by analysis.



Photograph 6: B00B, BR0004, teacher's desk, moulded sink, SMF (assumed).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 3
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20





Photograph 7: B00B, BR0009, north and west wall, enclosed building boxes, internal material(s), unknown.



Photograph 8: B00B, BR0012, north wall, enclosed T-shape building box, internal material(s), unknown.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>	PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>	PLATE No: 4
	<b>Hastings Secondary College, Port Macquarie Campus</b>	REV: A
	CLIENT: NSW Department of Education	DATE: Mar-20



Photograph 9: B00B, BR0012, teacher's desk, moulded sink, no asbestos detected by analysis, SMF detected.



Photograph 10: B00B, BR0019, portion of infill panels (type 3), fibre cement, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 5
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20






Photograph 11: B00B, BR0020 / BR1023, exterior brick wall, expansion gap, grey putty, asbestos detected by analysis.

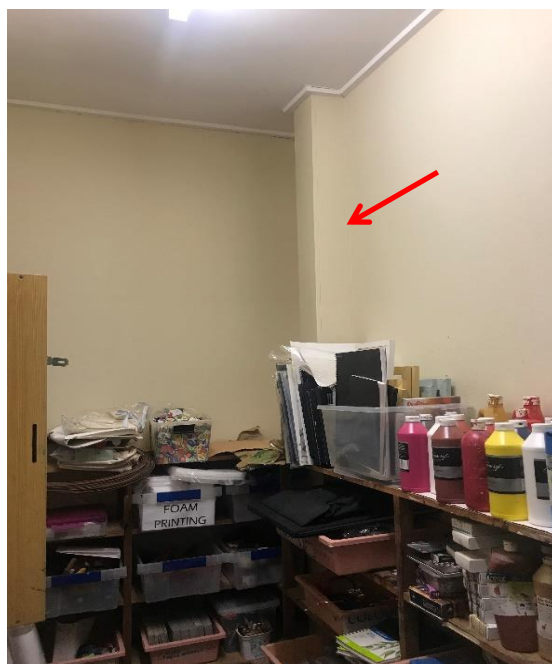


Photograph 12: B00B, BR1002, underside of sink, bituminous lining, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 6
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20



Photograph 13: B00B, BR1014, north wall, red building box, internal material(s), unknown.

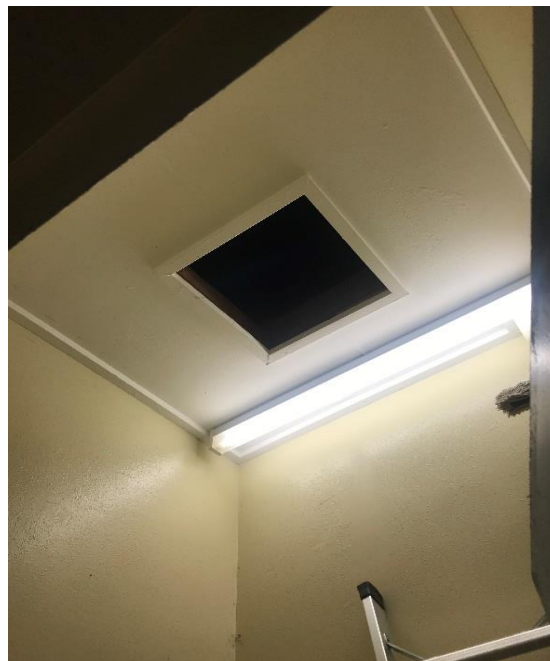


Photograph 14: B00B, BR1015, southwest corner, building box, internal material(s), unknown.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>	PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>	PLATE No: 7
	<b>Hastings Secondary College, Port Macquarie Campus</b>	REV: A
	CLIENT: NSW Department of Education	DATE: Mar-20



Photograph 15: B00B, BR1017, green and grey kilns, insulation, no asbestos detected by analysis, SMF detected.



Photograph 16: B00B, BR1021, ceiling, fibre cement sheeting, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 8
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20






Photograph 17: B00B, BR1021, top of ceiling, minor fibre cement sheeting debris, asbestos (assumed).



Photograph 18: B00B, BR1022, floor, below carpet, vinyl tile, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>	PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>	PLATE No: 9
	<b>Hastings Secondary College, Port Macquarie Campus</b>	REV: A
	CLIENT: NSW Department of Education	DATE: Mar-20





Photograph 19: B00B, BR1023, floor below vinyl sheeting, possible vinyl tile containing asbestos, limited access for inspection.



Photograph 20: B00B, subfloor, ground surface, fibre cement fragment(s), asbestos detected by analysis.


 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 10
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20



Photograph 21: B00B, building subfloor, throughout, materials in general, access limited.



Photograph 22: B00B, exterior, northern façade, notice board, cream and underlying white paint, lead paint (>0.1% lead w/w).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 11
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20





Photograph 23: B00B, exterior, northern façade, timber seating, green and underlying cream paint, lead paint (>0.1% lead w/w).



Photograph 24: B00B, rooms and areas in general, fluorescent light fittings in general, capacitors, insulating oil, PCB (assumed).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 12
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20



Photograph 25: B00B, exterior, northern façade, notice board, flashing, positive for lead.

	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 13
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE: Mar-20	

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## Appendix D

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B00C - Register and Plates

DP Project No: 89754.01

**Hazardous Building Materials (HBM) Register**

Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00C	exterior	eave linings	fibre cement sheet	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	2	2	0	7	Low	1	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	exterior	northern façade, window frame, between window frame and wall	typical putty	B00C-EXT-A01	asbestos detected by analysis	1	2	2	1	2	1	9	Low	2	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	exterior	concrete paving outside CR0006 roller door, expansion gap	bitumastic	B00C-EXT-A02	asbestos detected by analysis	0	1	2	2	2	0	7	Low	3	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	exterior	concrete paving outside CR0004, expansion gap	bitumastic	B00C-EXT-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	exterior	brick wall outside CR0004, expansion gap	bitumastic	B00C-EXT-A04	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0001	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	4	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0001	underside of sink	bituminous lining	CR0001-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0001	floor, below carpet	blue vinyl tile	CR0001-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0001	electrical cabinet	resinous board	not provided in DoE asbestos register	asbestos (assumed)	0	1	0	1	2	1	5	Low	5	Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00C	CR0002	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0003	window frame	glazing putty	CR0003-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0003	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0004	floor, below carpet	blue vinyl tile	CR0004-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0004	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	similar 4 and 6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0005	southeastern corner, door cover panel	fibre cement	CR0005-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0005	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	similar 4 and 6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0005	cubicles, partition walls	fibre cement board	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	3	2	1	9	Low	7	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).



DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00C	CR0005	rear of urinal	possible bituminous lining	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires intrusion/destruction) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00C	CR0006	throughout	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00C	CR0006	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	similar 4 and 6	Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00C	CR0007	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	similar 4 and 6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0009	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	similar 4 and 6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0010	cubicles, partition walls	fibre cement board	CR0010-A04	asbestos detected by analysis	1	1	1	3	2	1	9	Low	8	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0010	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	similar 4 and 6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0010	wall, infill panel to CR0011	fibre cement sheeting	CR0010-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0010	northern wall, door cover panel	fibre cement panel	CR0010-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0010	upper wall to north side of CR0012	fibre cement sheeting	CR0010-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0011 (now part of CR0012)	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	similar 4 and 6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0012	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	similar 4 and 6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0012	typical wall lining to entry vestibule	fibre cement sheeting	CR0012-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0012	southern wall	fibre cement sheeting	CR0012-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0012	northern wall, upper section	fibre cement sheeting	CR0012-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0012	sheeted and framed walls generally	fibre cement sheeting	refer CR0012-A01 to A03	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	CR0012	hot water unit	internal insulation	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0015	ceiling	fibre cement sheeting	CR0015-A01	asbestos detected by analysis	1	1	1	1	2	1	7	Low	similar 4 and 6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0015 / CR0013	northern wall, window infill panel(s)	fibre cement	refer CR0016-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified. Caution advised due to possible local replacement of materials in some areas.

DP Project No: 89754.01

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00C	CR0015	western wall, below carpet/textile lining	wall lining	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	Inaccessible area/material (requires intrusion/destruction) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00C	CR0016	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	1	7	Low	6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0016 / CR0013	northern wall, window infill panel(s)	fibre cement	CR0016-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00C	building in general	window frames, between window frame and wall	typical putty	refer B00C-EXT-A01	asbestos (assumed)	1	2	2	1	2	1	9	Low	similar 2	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	exterior	concrete paving	bitumastic	refer B00C-EXT-A02	may contain asbestos	0	1	2	2	2	0	7	Low	similar 3	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	CR0004	western brick wall	undercoat paint(s)	spot test 1 and CR0004-LP01	non-lead paint ( $\leq 0.1\%$ lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.
B00C	CR0004	typical wall	cream paint	spot test 2	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00C	CR0004	typical door	blue paint	spot test 3	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00C	CR0012	typical wall	black paint	spot test 4	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00C	CR0004	typical door	blue paint	spot test 5 and CR0004-LP02	lead paint ( $>0.1\%$ lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>
B00C	CR0015	brickwork	typical red paint	spot test 6 and CR0015-LP01	non-lead paint ( $\leq 0.1\%$ lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.
B00C	CR0016	timber beam	green paint	spot test 7	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00C	CR0013	exterior posts	green with underlying white paint	spot test 8 and CR0013-LP01	lead paint ( $>0.1\%$ lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>

DP Project No: 89754.01

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00C	CR0013	eastern end, metal fascia to walkway	green paint	spot test 9	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00C	CR0014	eastern end, timber seating	green paint and underlying cream paint	spot test 10	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>
B00C	rooms and areas in general	materials in general	paints	refer CR0004-LP02 and CR0013-LP01	may comprise lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>
B00C	throughout	ceiling cavities in general	settled dust/debris	N/A	elevated lead (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Ensure access to building cavity is adequately restricted and entry is only made under controlled conditions.</p> <p>Remove contamination if reasonably practicable to do so and prior to any substantive disturbance.</p> <p>Implement appropriate controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition work).</p> <p>Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.</p>
B00C	rooms and areas in general	fluorescent light fittings in general, capacitors	insulating oil	N/A	PCB (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11, 12	<p>Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Remove PCB containing capacitors prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p>

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 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment									
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Comment/Recommendation
B00C	rooms and areas in general	ceiling cavity	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	rooms and areas in general	sheeted and framed walls	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	rooms and areas in general	throughout	flashing (where present)	refer B00B spot test 17 and B00L spot test 10	lead (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Reinspect condition on a regular basis.  Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).  Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.
B00C	building subfloor	throughout	materials in general	N/A	unknown - no access identified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.



Photograph 1: B00C, exterior, eave linings, fibre cement sheet, asbestos detected by analysis.



Photograph 2: B00C, exterior, northern façade, window frame, between window frame and wall, typical putty, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 1
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20






Photograph 3: B00C, exterior, concrete paving outside CR0006 roller door, expansion gap, bitumastic, asbestos detected by analysis.



Photograph 4: B00C, CR0001, ceiling, fibre cement sheeting, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 2
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20





Photograph 5: B00C, CR0001, electrical cabinet, resinous board, asbestos (assumed).



Photograph 6: B00C, CR0016, ceiling, fibre cement sheeting, asbestos detected by analysis.


 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 3
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20



Photograph 7: B00C, CR0005, cubicles, partition walls, fibre cement board, asbestos detected by analysis.



Photograph 8: B00C, CR0010, cubicles, partition walls, fibre cement board, asbestos detected by analysis.


 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 4
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20



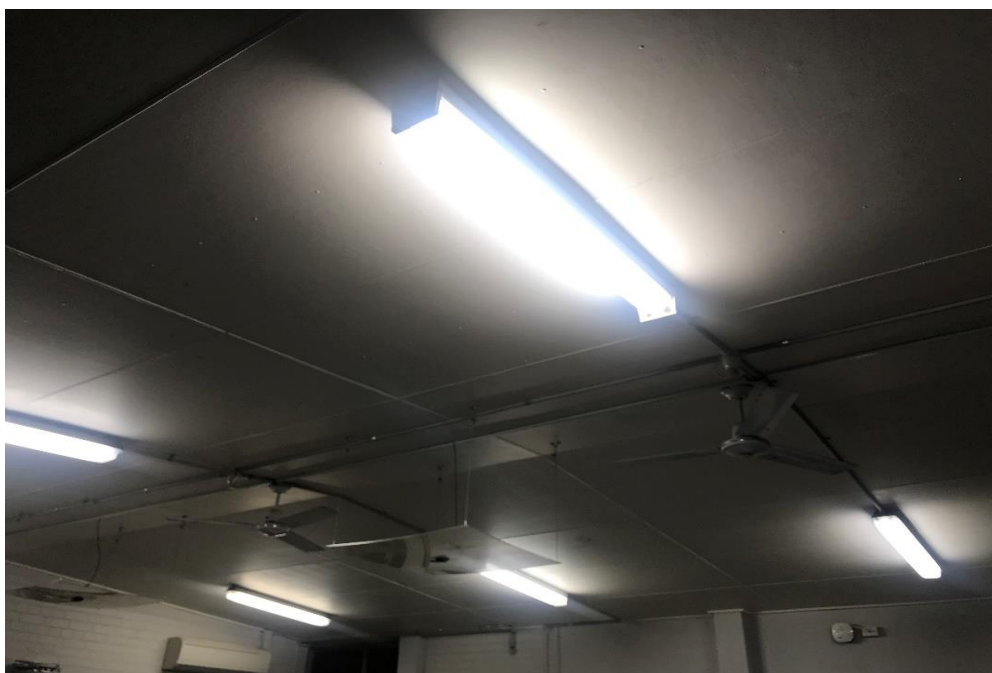
Photograph 9: B00C, CR0015, western wall, below carpet/textile lining, wall lining , unknown.



Photograph 10: B00C, CR0014, eastern end, timber seating, green paint and underlying cream paint, positive for lead.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 5
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20





Photograph 11: B00C, rooms and areas in general, fluorescent light fittings in general, capacitors, insulating oil, PCB (assumed).



Photograph 12: B00C, rooms and areas in general, fluorescent light fittings in general, capacitors, insulating oil, PCB (assumed).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 6
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20

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## Appendix E

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B00L - Register and Plates

DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00L	exterior	western eave	fibre cement	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	0	2	0	5	Low	1	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	exterior	western façade, between brick columns and walls	mastic	B00L-EXT-A01	asbestos detected by analysis	0	2	2	2	2	0	8	Low	2	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	exterior	western façade, north end, between window frame and wall	mastic	B00L-EXT-A02	asbestos detected by analysis	0	3	2	2	2	0	9	Low	3	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	exterior	western façade, centre, between window frame and wall	mastic	B00L-EXT-A03	asbestos detected by analysis	0	3	2	2	2	0	9	Low	4	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	exterior	western façade, paving, expansion joint	typical bitumastic	B00L-EXT-A04	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	exterior	window set at southern side of LR0044, infill panels	fibre cement	N/A	asbestos (assumed)	1	1	1	2	2	1	8	Low	5	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	exterior	western façade	materials to upper sections generally	N/A	limited access	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	Access for inspection limited by existing building structures (e.g. covered walkways etc.).
B00L	LR0013	ceiling	vermiculite	B00L-R0013-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0013	cubicle partitions	fibre cement board	LR0013-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0013	rear of urinal	possible bituminous lining	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	Inaccessible area/material (requires destructive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR0014	ceiling	vermiculite	LR0014-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0014	cubicle partitions	fibre cement board	LR0014-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0015	ceiling	vermiculite	LR0015-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0015	floor	brown vinyl tile with hessian reinforcement and fibrous backing	LR0015-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0015	window frame	glazing putty	B00L-R0015-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0018	ceiling	vermiculite	LR0018-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0018	underside of sink	possible bituminous lining	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires destructive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.



DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00L	LR0018	building box	internal materials	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires destructive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR0019	ceiling	vermiculite	refer LR0018-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
B00L	LR0019	floor	vinyl tiles	not provided in DoE asbestos register	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0019	electrical panel	resinous backing board(s) and/or other components	not provided in DoE asbestos register	<b>asbestos (assumed)</b>	0	1	2	1	1	1	6	Low	similar 8	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR0033	southern end, door frame	putty	LR0033-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0033	ceiling	vermiculite	LR0033-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0033	floor	vinyl tiles	not provided in DoE asbestos register	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Limited access available for inspection below new blue vinyl sheeting. No asbestos previously identified in the vinyl floor tiles in this room per the DoE asbestos register.
B00L	LR0042	ceiling of breezeway	vermiculite	LR0042-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0042	aluminium window and door sets, between window/door frame and wall	putty	LR0042-A02	<b>asbestos detected by analysis</b>	0	3	2	2	2	0	9	Low	9	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR0042	end of door steps, expansion gap	bitumastic	LR0042-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR0042	aluminium window/door frames, packing materials	fibre cement fragments	LR0042-A04	<b>asbestos detected by analysis</b>	1	3	3	2	2	0	11	Moderate	10	Consider removal and replacement or sealing of materials in place. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1016	southern end, aluminium door frame	glazing putty	LR1016-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR1016	floor, below blue vinyl sheeting	brown vinyl tiles with white streaks	not provided in DoE asbestos register	<b>asbestos detected by analysis</b>	0	1	0	1	2	1	5	Low	similar 11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1016	floor, below blue vinyl sheeting and vinyl tiles	bituminous adhesive	not provided in DoE asbestos register	<b>asbestos detected by analysis</b>	0	1	0	1	2	1	5	Low	similar 12	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1016	ceiling, top of perforated plaster tiles	insulation	N/A	<b>SMF (assumed)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13	Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1019	ceiling, top of perforated plaster tiles	insulation	N/A	<b>SMF (assumed)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1019	building box	internal materials	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires destructive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.

DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00L	LR1021	northern portion (photocopier room)	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1022	floor, below carpet	brown vinyl tiles with white streaks	not provided in DoE asbestos register	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1022	floor, below carpet and vinyl tiles	bituminous adhesive	not provided in DoE asbestos register	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 12	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1022	ceiling cavity, underside of roof	insulation	N/A	SMF identified visually	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1023	floor, below carpet	brown vinyl tiles with white streaks	not provided in DoE asbestos register	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1023	floor, below carpet and vinyl tiles	bituminous adhesive	not provided in DoE asbestos register	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 12	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1024	floor, below carpet	brown vinyl tiles with white streaks	not provided in DoE asbestos register	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1024	floor, below carpet and vinyl tiles	bituminous adhesive	not provided in DoE asbestos register	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 12	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1025	north end, door frame set	glazing putty	LR1025-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR1025	false ceiling	ceiling tiles	N/A	SMF identified visually	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1025	ceiling cavity	insulation to roof	N/A	SMF identified visually	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1025	floor, below blue vinyl sheeting	vinyl tiles	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	0	1	1	5	Low	18	Inaccessible area/material (requires intrusion/destruction) - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1025	floor, below blue vinyl sheeting and vinyl tiles	bituminous adhesive	N/A	asbestos (assumed)	0	1	0	1	2	1	5	Low	similar 12	Inaccessible area/material (requires intrusion/destruction) - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1027 (adjacent west LR1028)	floor	brown vinyl tiles with white streaks	not provided in DoE asbestos register	asbestos detected by analysis	0	1	3	1	2	1	8	Low	similar 11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).

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Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00L	LR1027 (adjacent west LR1028)	floor, below tiles	bituminous adhesive	N/A	asbestos (assumed)	0	1	0	1	2	1	5	Low	similar 12	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1027 (adjacent west LR1028)	enclosed within electrical cabinet	resinous backing board(s) and/or other components	not provided in DoE asbestos register	asbestos (assumed)	0	1	1	1	1	1	5	Low	19	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1028	throughout	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1029	floor, below carpet and vinyl sheeting	brown vinyl tiles with white streaks	not provided in DoE asbestos register	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1029	floor, below carpet and vinyl sheeting and underlying vinyl tiles	bituminous adhesive	not provided in DoE asbestos register	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 12	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1029	ceiling, top of perforated plaster tiles	insulation	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	similar 14	Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1029	building box	internal materials	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires destructive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1031	floor, below carpet	vinyl tiles	LR1031-A01	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1031	floor, below carpet and vinyl tiles	bituminous adhesive	not provided in DoE asbestos register	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 12	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1031	window frame	glazing putty	LR1031-A02	asbestos detected by analysis	0	1	2	2	2	1	8	Low	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1031	ceiling, top of perforated plaster tiles	insulation	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	similar 14	Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1032	floor	vinyl tiles	not provided in DoE asbestos register	asbestos detected by analysis	0	1	3	3	1	1	9	Low	N/A	Material not visually identified during inspection by DP however limited access available due to storage. Confirm status of hazardous material(s) when complete access available and prior to any disturbance.
B00L	LR1032	floor, below vinyl tiles	bituminous adhesive	not provided in DoE asbestos register	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 12	Material not visually identified during inspection by DP however limited access available due to storage. Confirm status of hazardous material(s) when complete access available and prior to any disturbance.
B00L	LR1034	floor	vinyl tiles	not provided in DoE asbestos register	asbestos detected by analysis	0	1	3	3	1	1	9	Low	N/A	Inaccessible area/material (keys) - Caution advised due to adhesives in other similar areas (e.g. LR1033) reported as containing asbestos in the DoE asbestos register. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1034	floor, below vinyl tiles	adhesive	not provided in DoE asbestos register	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Caution advised due to adhesives in other similar areas (e.g. LR1033) reported as containing asbestos in the DoE asbestos register. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR1036	ceiling	fibre cement sheeting	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	0	6	Low	20	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).

DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00L	LR1056	floor, below carpet	brown vinyl tiles with white streaks	LR1056-A01	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1057	window frame	glazing putty	LR1057-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00L	LR1057	floor, below carpet	brown vinyl tiles with white streaks	LR1057-A01	asbestos detected by analysis	0	1	0	1	2	1	5	Low	similar 11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	LR1057	underside of sink	bituminous lining	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (requires destructive inspection) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	exterior in general	between brick columns and walls and similar building joints	mastic	refer B00L-EXT-A01	asbestos (assumed)	0	2	2	2	2	0	8	Low	similar 2	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	exterior in general	between window/door frames and wall	mastic	refer B00L-EXT-A02 and LR0042-A02	asbestos (assumed)	0	3	2	2	2	0	9	Low	similar 3 and 9	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	building in general	aluminium window/door frames, packing materials	fibre cement fragments	refer LR0042-A04	asbestos (assumed)	1	3	3	2	2	0	11	Moderate	similar 10	Consider removal and replacement or sealing of materials in place. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	building in general	floors (including below carpet and other flooring materials)	brown vinyl tiles with white streaks	refer LR1056-A01 and LR1057-A01	asbestos (assumed)	0	1	0	1	2	1	5	Low	similar 11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	building in general	floors (including below carpet and other flooring materials)	bituminous adhesive	not provided in DoE asbestos register	asbestos (assumed)	0	1	0	1	2	1	5	Low	similar 12	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00L	building in general	window frames	glazing putty	refer LR1031-A02	may contain asbestos	0	1	2	2	2	1	8	Low	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).

DP Project No: 89754.01

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment									
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Comment/Recommendation
B00L	LR1057	boiling water unit	insulation	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00L	LR0015	brick wall	white paint	spot test 1	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00L	LR0015	entrance, door frame	white and underlying cream paint	spot test 2 and B00L-LP02	lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.
B00L	LR0041	eastern brick wall	pink and underlying white paint	spot test 3	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00L	LR0041	western brick wall	pink and underlying white paint	spot test 4	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00L	LR0033	concrete column	cream paint	spot test 5	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00L	LR0033	door frame	white and underlying cream paint	spot test 6 and B00L-LP06	non-lead paint (≤0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.
B00L	LR1029	brick wall	white and underlying yellow paint	spot test 7	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00L	LR1029	window sill	white and underlying beige paint	spot test 8 B00L-LP08	non-lead paint (≤0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.
B00L	LR1031	brick wall	white and underlying yellow paint	spot test 9	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00L	rooms and areas in general	materials in general	paints	refer B00L-LP02	may comprise lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.

DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment									Photo No.	Summary Comment/Recommendation
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority			
B00L	LR1022	ceiling cavity	settled dust/debris	LR1022-LD01	elevated lead (≥0.5 mg/m2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	21	Ensure access to building cavity is adequately restricted and entry is only made under controlled conditions.  Remove contamination if reasonably practicable to do so and prior to any substantive disturbance.  Implement appropriate controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition work).  Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.	
B00L	throughout	ceiling cavities in general	settled dust/debris	refer LR1022-LD01	elevated lead (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ensure access to building cavity is adequately restricted and entry is only made under controlled conditions.  Remove contamination if reasonably practicable to do so and prior to any substantive disturbance.  Implement appropriate controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition work).  Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.	
B00L	rooms and areas in general	fluorescent light fittings in general, capacitors	insulating oil	N/A	PCB (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	22	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove PCB containing capacitors prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00L	rooms and areas in general	ceiling cavities generally	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00L	rooms and areas in general	sheeted and framed walls	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00L	exterior	western façade, northern end	typical flashing	spot test 10	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	23	Reinspect condition on a regular basis.  Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).  Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.	



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Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment									
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Comment/Recommendation
B00L	rooms and areas in general	throughout	typical flashing	refer spot test 10	assumed to contain lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	refer 23	<div>Reinspect condition on a regular basis.</div> <div>Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</div> <div>Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.</div>
B00L	building subfloor	throughout	materials in general	N/A	inaccessible - slab on ground	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No access identified and, therefore, no asbestos/hazardous material identified.



Photograph 1: B00L, exterior, western eave, fibre cement, asbestos detected by analysis.



Photograph 2: B00L, exterior, western façade, between brick columns and walls, mastic, asbestos detected by analysis.

	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 1
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	<b>CLIENT: NSW Department of Education</b>		DATE: Mar-20



Photograph 3: B00L, exterior, western façade, north end, between window frame and wall, mastic, asbestos detected by analysis.



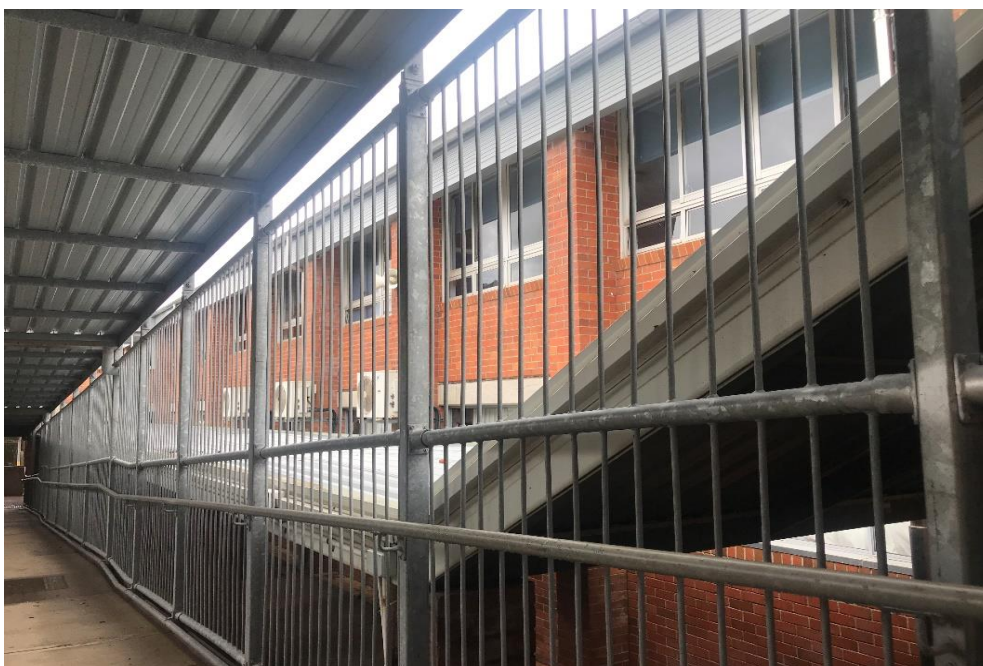
Photograph 4: B00L, exterior, western façade, centre, between window frame and wall, mastic, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 2
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20





Photograph 5: B00L, exterior, window set at southern side of LR0044, infill panels, fibre cement, asbestos (assumed).



Photograph 6: B00L, exterior, western façade, materials to upper sections generally, limited access.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 3
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20



Photograph 7: B00L, LR0013, rear of urinal, possible bituminous lining, unknown.



Photograph 8: B00L, LR0019, ceiling, vermiculite, non asbestos (assumed).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 4
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20




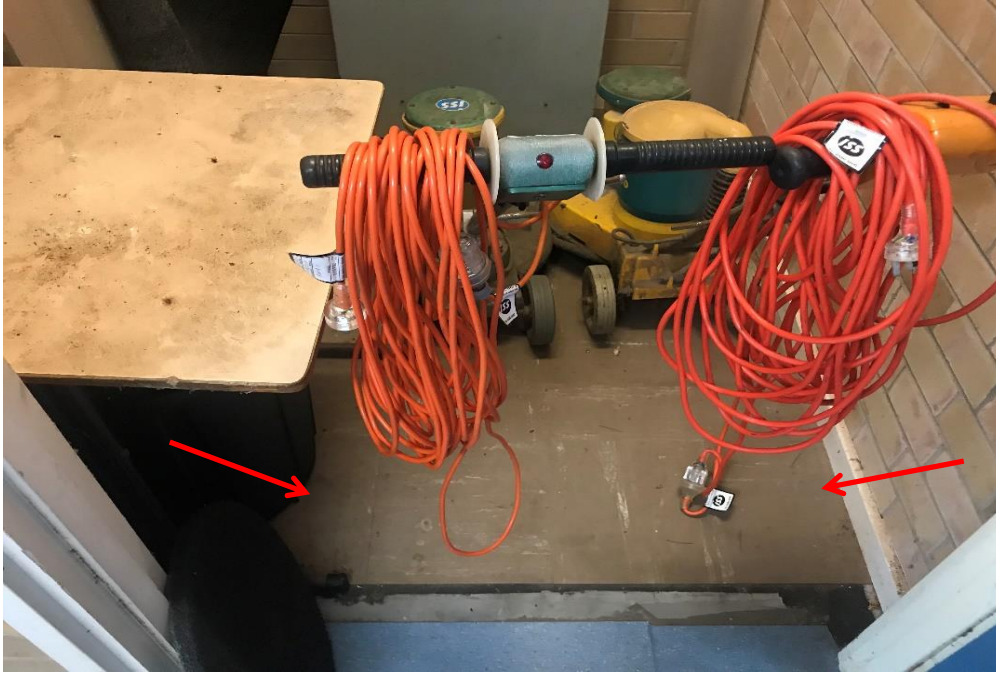


Photograph 9: B00L, LR0042, aluminium window and door sets, between window/door frame and wall, putty , asbestos detected by analysis.



Photograph 10: B00L, LR0042, aluminium window/door frames, packing materials, fibre cement fragments, asbestos detected by analysis.


 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 5
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20

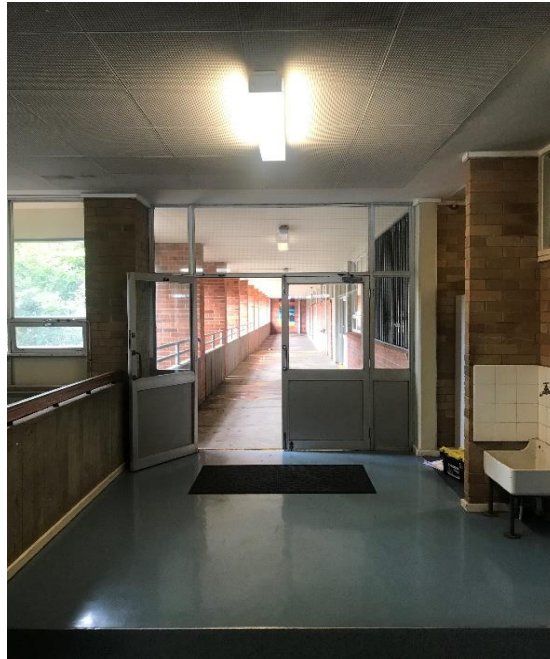


Photograph 11: Typical brown vinyl tile with white streaks to floors (including below carpets and vinyl sheeting), asbestos detected by analysis.



Photograph 12: Typical bituminous adhesive below vinyl tiles with white streaks, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 6
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	CLIENT: NSW Department of Education	DATE:	Mar-20



Photograph 13: B00L, LR1016, ceiling, top of perforated plaster tiles, insulation, SMF (assumed).



Photograph 14: B00L, LR1019, ceiling, top of perforated plaster tiles, insulation, SMF (assumed).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 7
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20





Photograph 15: B00L, LR1022, ceiling cavity, underside of roof, insulation, SMF identified visually.

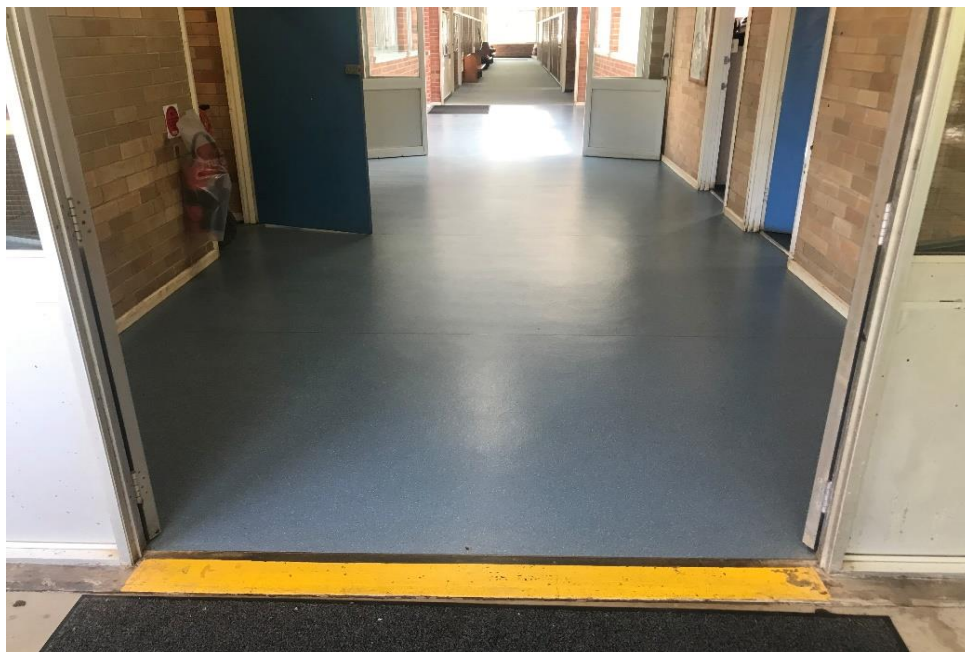


Photograph 16: B00L, LR1025, false ceiling, ceiling tiles, SMF identified visually.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 8
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20



Photograph 17: B00L, LR1025, ceiling cavity, insulation to roof, SMF identified visually.



Photograph 18: B00L, LR1025, floor, below blue vinyl sheeting, vinyl tiles, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 9
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20





Photograph 19: B00L, LR1027 (adjacent west LR1028), enclosed within electrical cabinet, resinous backing board(s) and/or other components, asbestos (assumed).



Photograph 20: B00L, LR1036, ceiling, fibre cement sheeting, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 10
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20



Photograph 21: B00L, LR1022, ceiling cavity, settled dust/debris, elevated lead ( $\geq 0.5 \text{ mg/m}^2$ ).



Photograph 22: B00L, rooms and areas in general, fluorescent light fittings in general, capacitors, insulating oil, PCB (assumed).

### Site Photographs

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

CLIENT: NSW Department of Education

PROJECT: 89754.01

PLATE No: 11

REV: A

DATE: Mar-20



Photograph 23: B00L, exterior, western façade, northern end, typical flashing, positive for lead.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 12
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20

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## Appendix F

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B00S - Register and Plates



DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment										
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Comment/Recommendation	
B00S	exterior	eave linings	fibre cement	not provided in DoE asbestos register	asbestos detected by analysis	1	2	2	1	2	0	8	Low	N/A	Inaccessible due to current building/construction works which may include removal of eave linings. Material assumed to remain present as a precaution.  Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00S	subfloor	packing to accessible brick pier	fibre cement	SR0002-EXT-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	No asbestos/hazardous materials identified.	
B00S	subfloor	packing to brick piers generally	fibre cement	N/A	may contain asbestos	1	3	2	1	0	2	9	Low	similar 1	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.	
B00S	SR0002	walls throughout	undercoat paints	spot test 1	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.	
B00S	exterior	walls	white paint	spot test 2	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.	
B00S	rooms and areas in general	materials in general	paints	refer spot test 1 and 2	may comprise lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.	



DP Project No: 89754.01

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus


Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00S	rooms and areas in general	fluorescent light fittings in general, capacitors	insulating oil	N/A	<b>PCB (assumed)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove PCB containing capacitors prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00S	rooms and areas in general	sheeted and framed walls	possible insulation materials	N/A	<b>SMF (assumed)</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).



Photograph 1: B00S, subfloor, packing to accessible brick pier, fibre cement, no asbestos detected by analysis.



Photograph 2: B00S, SR0002, walls throughout, undercoat paints, positive for lead.

	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 1
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	<b>CLIENT: NSW Department of Education</b>		DATE: Mar-20

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## Appendix G

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B00T - Register and Plates

DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00T	exterior	eave linings (eastern aspects)	fibre cement	8364 / B00B / R0019 / S6 in DoE asbestos register	asbestos (assumed)	1	1	1	1	2	0	6	Low	3	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00T	exterior	window frames throughout, between frame and wall	putty/mastic	B00T-EXT-A02	asbestos detected by analysis	0	2	1	1	2	0	6	Low	4	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00T	exterior	above level one door to R0014, infill panel	fibre cement	B00T-EXT-A01	asbestos detected by analysis	1	1	1	1	2	0	6	Low	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00T	R0002	electrical cupboard	electrical backing board	N/A	asbestos (assumed)	0	1	1	1	1	2	6	Low	11	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00T	R0006	flooring	vinyl flooring	TR0006-A01	asbestos detected by analysis	0	1	1	2	2	1	7	Low	10	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00T	R0006	air handling unit / ductwork	mastic	TR0006-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00T	R0008	floor, below carpet	vinyl flooring	TR0008-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00T	R0009	backing to vinyl flooring	fibrous material	TR0009-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00T	R0011	eastern windows	glazing putty	TR0011-A02	asbestos detected by analysis	0	2	1	1	2	0	6	Low	5	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00T	R0011	toilet partition(s)	compressed fibre cement	TR0011-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.

DP Project No: 89754.01  
Hazardous Building Materials (HBM) Register  
Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00T	R0014	flooring, near door	vinyl flooring	TR0014-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00T	R0014	ceiling panels along western side of room	fibre cement	refer TR0016-A01	asbestos (assumed)	1	1	1	2	2	1	8	Low	7	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00T	R0014	infill panel next to northern door	fibre cement	TR0014-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
B00T	R0014	floor	vinyl tiles	8364 / B00T / R0014 / S14 in DoE asbestos register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material listed in DoE asbestos register but not identified during this inspection and assumed removed.
B00T	R0016	ceiling	fibre cement	TR0016-A01	asbestos detected by analysis	1	1	1	2	2	0	7	Low	2	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00T	R0017	floor	vinyl tiles	8364 / B00T / R0014 / S14 in DoE asbestos register	asbestos assumed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material listed in DoE asbestos register but not identified during this inspection and assumed removed.
B00T	R0018	floor, below carpet	vinyl flooring	TR0018-A01	asbestos detected by analysis	0	1	1	1	2	1	6	Low	6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00T	throughout	window in general	glazing putty	refer TR0011-A02	asbestos detected by analysis	0	2	1	1	2	0	6	Low	similar 5	Remove and dispose any loose or substantially degraded material. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00T	R0016	ceiling	cream paint	spot test 1 and B00T-EXT-LP01	non-lead paint ( $\leq 0.1\%$ lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.
B00T	exterior	facia	green paint	spot test 2	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No lead paint identified.
B00T	R0011	walls	white paint	spot test 3	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No lead paint identified.



DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment									Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority			
B00T	R0014	walls	white/cream undercoats to walls	spot test 4 TR0014-LP01	non-lead paint (≤0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.	
B00T	R0014	hot water heater	insulation	N/A	SMF identified visually	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00T	R0016	fluorescent light fittings in general, capacitors	insulating oil	N/A	PCB (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove PCB containing capacitors prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00T	rooms and areas in general	fluorescent light fittings in general, capacitors	insulating oil	N/A	PCB (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	similar 1	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove PCB containing capacitors prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00T	throughout	ceiling cavities in general	settled dust/debris	N/A	elevated lead (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ensure access to building cavity is adequately restricted and entry is only made under controlled conditions.  Remove contamination if reasonably practicable to do so and prior to any substantive disturbance.  Implement appropriate controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition work).  Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.	
B00T	rooms and areas in general	ceiling cavities generally	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
B00T	rooms and areas in general	sheeted and framed walls	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.  Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	

DP Project No: 89754.01

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

Building Secondary College, Port Macquarie Campus						Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
B00T	rooms and areas in general	throughout	typical flashing	N/A	assumed to contain lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Reinspect condition on a regular basis.  Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).  Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.
B00T	building subfloor	throughout	materials in general	N/A	nil hazardous materials identified	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Nil asbestos/hazardous materials identified however access limited for inspection. Confirm status of hazardous material(s) when full safe access available and prior to any disturbance.



Photograph 1: B00T, R0016, ceiling, fluorescent lights, capacitors, PCB (assumed).



Photograph 2: B00T, R0016, ceiling, fibre cement, asbestos detected by analysis.


 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>	PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>	PLATE No: 1
	<b>Hastings Secondary College, Port Macquarie Campus</b>	REV: A
	<b>CLIENT: NSW Department of Education</b>	DATE: Mar-20



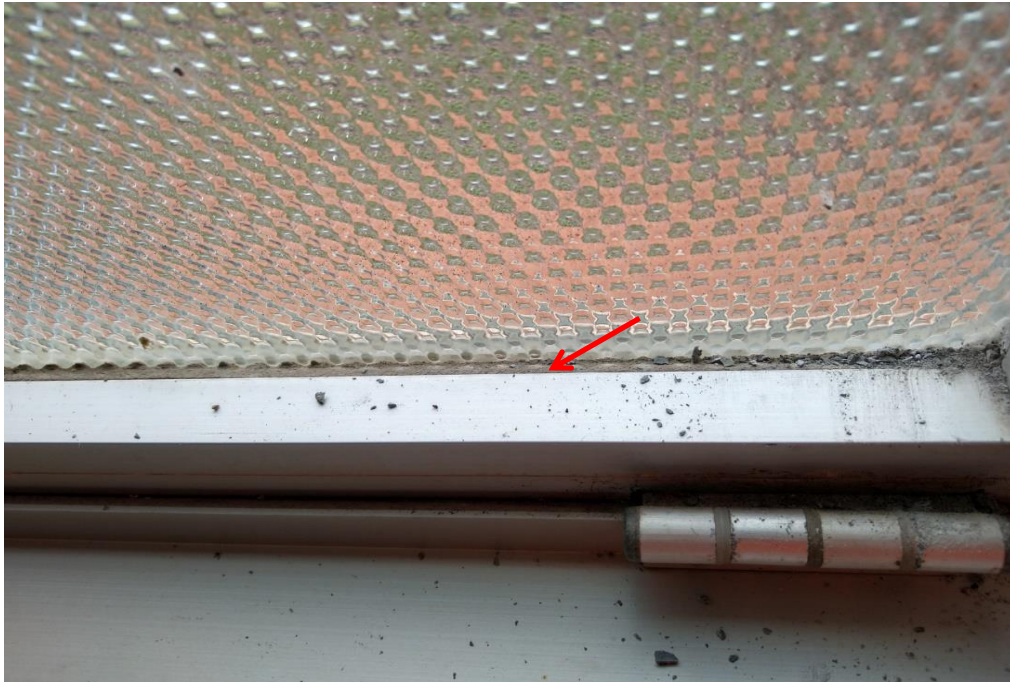
Photograph 3: B00T, exterior, eave lining (eastern aspect), fibre cement, asbestos detected by analysis.



Photograph 4: B00T, exterior, window frames, putty/mastic, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 2
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20






Photograph 5: B00T, R0011, eastern windows, putty/mastic, asbestos detected by analysis.



Photograph 6: B00T, R0018, under carpet, vinyl, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 3
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20






Photograph 7: B00T, R0014, ceiling panels along western side of room , fibre cement , asbestos detected by analysis.



Photograph 8: B00T, R0014, walls, white/cream undercoats to walls, non-lead paint ( $\leq 0.1\%$  lead w/w).


 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>	PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>	PLATE No: 4
	<b>Hastings Secondary College, Port Macquarie Campus</b>	REV: A
	<b>CLIENT: NSW Department of Education</b>	DATE: Mar-20



Photograph 9: B00T, R0014, hot water heater, insulation, SMF identified visually.



Photograph 10: B00T, R0006, flooring, vinyl flooring, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 5
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20



Photograph 11: B00T, R0002, electrical cupboard, electrical backing board, asbestos (assumed).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>	PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register	PLATE No: 6
	Hastings Secondary College, Port Macquarie Campus	REV: A
	CLIENT: NSW Department of Education	DATE: Mar-20

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## Appendix H

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BMPC - Register and Plates

DP Project No: 89754.01

## Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

Asbestos Sample						Asbestos Risk Assessment									Photo No.	Summary Comment/Recommendation
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority			
BMPC	exterior	brickwork (vertical)	mastic	MPC-EXT-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	exterior	eastern doors, infill panel beside door	fibre cement	MPC-EXT-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	exterior	foot of brick walls, expansion gap	typical mastic	MPC-EXT-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	exterior	southern wall panels	fibre cement	MPC-EXT-A04	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0008	floor	vinyl flooring	MPC-R0008-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0008	infill panel above door	fibre cement	MPC-R0008-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0007	wall linings	fibre cement	8364 / BMPC / R0007 / S18 in DoE asbestos register	non-asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0006	underside of sink	bituminous membrane	MPC-R0006-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0006	floor	vinyl flooring	refer MPC-R0008-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0006	wall panels	fibre cement	MPC-R0006-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.



DP Project No: 89754.01

**Hazardous Building Materials (HBM) Register**

Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment									Photo No.	Summary Comment/Recommendation
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority			
BMPC	R0006	ceiling panels	fibre cement	MPC-R0006-A03	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0003	hot water heater	insulation	N/A	asbestos (assumed)	3	1	0	0	1	1	6	Low	2	Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.	
BMPC	R0002	toilet partitions	compressed fibre cement	MPC-R0002-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0002	wall lining	fibre cement	8364 / BMPC / R0007 / S18 in DoE asbestos register	non-asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0001	change room partitions	compressed fibre cement	MPC-R0001-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0001	wall lining	fibre cement	8364 / BMPC / R0007 / S18 in DoE asbestos register	non-asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0018	walls behind stage	fibre cement	MPC-R0018-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0016	change room partitions	compressed fibre cement	refer MPC-R0001-A01	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0016	wall linings	compressed fibre cement	8364 / BMPC / R0007 / S18 in DoE asbestos register	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BMPC	R0015	toilet partitions	compressed fibre cement	refer MPC-R0002-A01 and 8364 / BMPC / R0015 / S19 in DoE asbestos register	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.

DP Project No: 89754.01

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment										
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Comment/Recommendation	
BMPC	R0015	wall linings	fibre cement	8364 / BMPC / R0007 / S18 in DoE asbestos register	non-asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.	
BMPC	R0014	electrical cupboard	electrical backing board(s)	N/A	asbestos (assumed)	0	2	2	1	1	1	7	Low	6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).	
BMPC	R0012	wall linings	fibre cement	8364 / BMPC / R0007 / S18 in DoE asbestos register	non-asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.	
BMPC	exterior	walls	cream paints and undercoats	spot test 1 and MPC-EXT-LP01	non-lead paint (≤0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.	
BMPC	exterior	facia	grey paint	spot test 2	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No lead paint identified.	
BMPC	R0009	walls	pink paint	spot test 3 and MPC-R0009-LP01	lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.	
BMPC	R0008	steel beams	light grey paint	spot test 4	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No lead paint identified.	
BMPC	R0005	doors	dark blue paint	spot test 5	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No lead paint identified.	
BMPC	R0002	doors	red paint	spot test 6 and MPC-R0002-LP01	lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.	

DP Project No: 89754.01

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
BMPC	R0005	ceiling, air handling duct work	green paint	N/A	lead paint (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	<p>Inaccessible due height and assumed to contain lead as a precaution.</p> <p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>
BMPC	building in general	fluorescent lights, capacitors	insulating oil	N/A	nil PCB (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	No hazardous materials assumed based on building construction date (circa 1985).
BMPC	throughout	ceiling cavities in general	settled dust/debris	N/A	elevated lead (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Ensure access to building cavity is adequately restricted and entry is only made under controlled conditions.</p> <p>Remove contamination if reasonably practicable to do so and prior to any substantive disturbance.</p> <p>Implement appropriate controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition work).</p> <p>Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.</p>
BMPC	rooms and areas in general	ceiling cavities generally	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p>
BMPC	rooms and areas in general	sheeted and framed walls	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Inaccessible area/material - hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p>
BMPC	building subfloor	throughout	materials in general	N/A	inaccessible - slab on ground	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No access identified and, therefore, no asbestos/hazardous material identified.



Photograph 1: BMPC, exterior, walls, cream paints and undercoats, non-lead paint ( $\leq 0.1\%$  lead w/w).



Photograph 2: BMPC, R0003, hot water heater, insulation, asbestos (assumed).

	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 1
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	<b>CLIENT: NSW Department of Education</b>		DATE: Mar-20



Photograph 3: BMPC, R0009, walls, pink paint , lead paint (>0.1% lead w/w).



Photograph 4: BMPC, fluorescent lights, nil PCB assumed based on building construction date (circa 1985).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 2
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20





Photograph 5: BMPC, R0002, doors, red paint, non-lead paint (>0.1% lead w/w).



Photograph 6: BMPC, R0014, electrical cupboard, electrical backing board(s), asbestos (assumed).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>	PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>	PLATE No: 3
	<b>Hastings Secondary College, Port Macquarie Campus</b>	REV: A
	<b>CLIENT: NSW Department of Education</b>	DATE: Mar-20



Photograph 7: BMPC, R0005, ceiling, air handling duct work, green paint, lead paint (assumed).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 4
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20

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## Appendix I

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BTAS - Register and Plates

DP Project No: 89754.01

**Hazardous Building Materials (HBM) Register**

Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
BTAS	exterior	eave linings	fibre cement	not provided in DoE asbestos register	asbestos detected by analysis	1	1	1	1	2	0	6	Low	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	exterior	window frames	typical putty/sealant	TAS-EXT-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BTAS	exterior	window infill panel near TASR0013	fibre cement	TAS-EXT-A02	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BTAS	TASR0001	window sill lining(s)	fibre cement	not provided in DoE asbestos register	asbestos detected by analysis	1	1	2	2	2	1	9	Low	1, 2	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	TASR0001	southwestern section, ceiling lining	fibre cement	N/A	asbestos (assumed)	1	1	1	1	2	1	7	Low	3	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	TASR0002	floor	fibre cement board	TAS-R0002-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No asbestos/hazardous material identified.
BTAS	TASR0006	throughout	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
BTAS	TASR0006	electrical panel	resinous backing board(s) and/or other components	not provided in DoE asbestos register	asbestos (assumed)	0	1	1	1	1	1	5	Low	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
BTAS	TASR0007	throughout	materials in general	N/A	unknown	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inaccessible area/material (keys) - Confirm status of hazardous material(s) when safe access available and prior to any disturbance
BTAS	TASR0008	window sill lining(s)	fibre cement	not provided in DoE asbestos register	asbestos detected by analysis	1	1	2	2	2	1	9	Low	similar 1 and 2	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	TASR0009	window sill lining(s)	fibre cement	not provided in DoE asbestos register	asbestos detected by analysis	1	1	2	2	2	1	9	Low	similar 1 and 2	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	TASR0010	window sill lining(s)	fibre cement	not provided in DoE asbestos register	asbestos detected by analysis	1	1	2	2	2	1	9	Low	similar 1 and 2	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	TAS-R0011	ceiling lining(s)	fibre cement	TAS-R0011-A01	asbestos detected by analysis	1	1	1	1	2	0	6	Low	N/A	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	TAS-R0013	ceiling lining(s)	fibre cement	TAS-R0013-A01	asbestos detected by analysis	1	1	1	1	2	1	7	Low	6	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	TAS-R0018	brick wall, expansion joint	mastic/sealant	TAS-R0018-A01	asbestos detected by analysis	0	1	1	2	2	1	7	Low	7	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	building in general	brick wall, expansion joints	mastic/sealant	refer TAS-R0018-A01	asbestos (assumed)	0	1	1	2	2	1	7	Low	similar 7	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	building in general	window sill lining(s)	fibre cement	not provided in DoE asbestos register	asbestos (assumed)	1	1	2	2	2	1	9	Low	similar 1 and 2	Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
BTAS	building in general	window frames	typical putties/sealants	refer TAS-EXT-A01	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Caution advised since asbestos was detected in similar putties/sealants in other buildings at the Site.

DP Project No: 89754.01

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment									Photo No.	Summary Comment/Recommendation
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority			
BTAS	TASR0013	typical wall	blue paint	spot test 1 and TAS-LP01	lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.	
BTAS	TASR0013	entry door	cream paint	spot test 2	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
BTAS	TASR0013	door	white paint	spot test 3	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
BTAS	exterior	northern end, metal handrails	olive green paint	spot test 4	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	
BTAS	exterior	typical eave/fascia	cream paint	spot test 5	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.	
BTAS	TASR0010	timber window frame	white and underlying cream paint	spot test 6 and TAS-LP06	lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.  Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).  Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.	
BTAS	TASR0001	concrete column	cream paint	spot test 7 and TAS-LP07	non-lead paint (≤0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sample analysis did not indicate lead paint as defined under AS4361.2 - 2017. Notwithstanding this, caution is advised due to the limitations associated with paint sampling and due to spot-testing indicating the potential presence of lead.	
BTAS	TASR0008	ceiling	white paint	spot test 8	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.	



DP Project No: 89754.01  
 Hazardous Building Materials (HBM) Register  
 Hastings Secondary College, Port Macquarie Campus

						Asbestos Risk Assessment										
Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Comment/Recommendation	
BTAS	rooms and areas in general	materials in general	paints	refer TAS-LP01 and LP02	may comprise lead paint (>0.1% lead w/w)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Areas of damaged/flaking lead paint and any associated debris should be removed and the building surfaces adequately sealed (e.g. overpainted) by a suitably qualified and experienced contractor.</p> <p>Avoid disturbance and implement controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition).</p> <p>Waste contaminated with lead (including lead paint waste) from educational institutions is pre-classified as general solid waste (non-putrescible) under the NSW EPA Waste Classification Guidelines.</p>	
BTAS	throughout	ceiling cavities in general	settled dust/debris	N/A	elevated lead (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Ensure access to building cavity is adequately restricted and entry is only made under controlled conditions.</p> <p>Remove contamination if reasonably practicable to do so and prior to any substantive disturbance.</p> <p>Implement appropriate controls to prevent exposure and dispersal during building work (e.g. maintenance, refurbishment and demolition work).</p> <p>Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.</p>	
BTAS	rooms and areas in general	fluorescent light fittings in general, capacitors	insulating oil	N/A	PCB (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4, 5	<p>Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Remove PCB containing capacitors prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p>	
BTAS	rooms and areas in general	ceiling cavities generally	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p>	
BTAS	rooms and areas in general	sheeted and framed walls	insulation materials	N/A	SMF (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Inaccessible area/material - hazardous material(s)assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.</p> <p>Remove SMF prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p>	
BTAS	rooms and areas in general	throughout	typical flashing	refer B00B spot test 17 and B00L spot test 10	assumed to contain lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<p>Reinspect condition on a regular basis.</p> <p>Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).</p> <p>Classify material(s) for disposal, when required, in accordance with the NSW EPA Waste Classification Guidelines.</p>	

DP Project No: 89754.01

Hazardous Building Materials (HBM) Register

Hastings Secondary College, Port Macquarie Campus

Building	Room / Area	Material Location	Material Type	Sample No.	Material Status	Asbestos Risk Assessment								Photo No.	Summary Comment/Recommendation
						Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority		
BTAS	building subfloor	throughout	materials in general	N/A	inaccessible - slab on ground	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No access identified and, therefore, no asbestos/hazardous material identified.

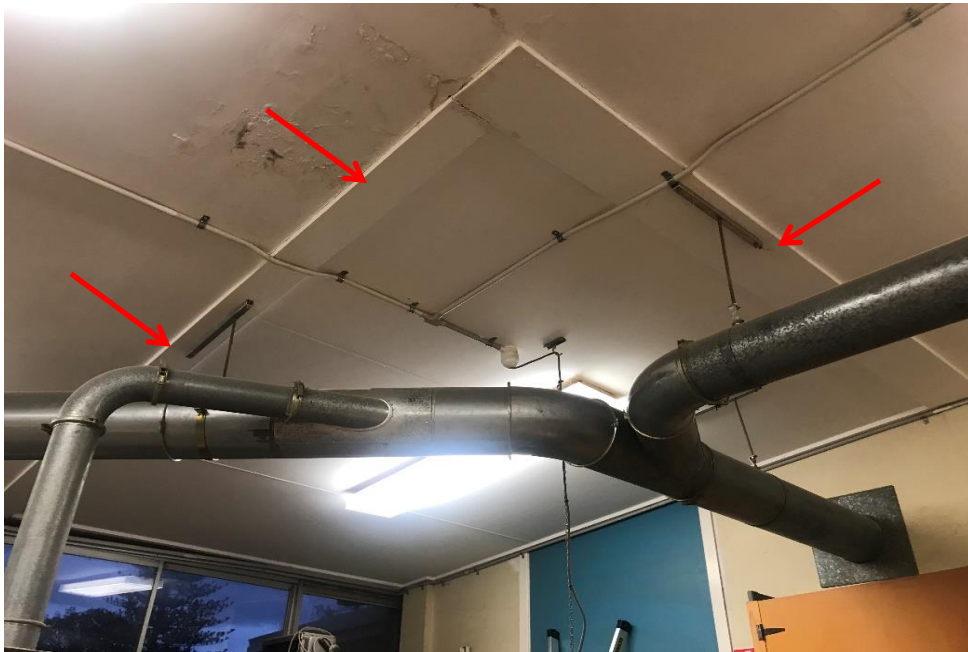


Photograph 1: BTAS, typical window sill lining(s), fibre cement, asbestos detected by analysis.



Photograph 2: BTAS, typical window sill lining(s), fibre cement, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 1
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20



Photograph 3: BTAS, TASR0001, southwestern section, ceiling lining, fibre cement, asbestos (assumed).



Photograph 4: BTAS, rooms and areas in general, fluorescent light fittings in general, capacitors, insulating oil, PCB (assumed).

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>	PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register	PLATE No: 2
	Hastings Secondary College, Port Macquarie Campus	REV: A
	CLIENT: NSW Department of Education	DATE: Mar-20






Photograph 5: BTAS, rooms and areas in general, fluorescent light fittings in general, capacitors, insulating oil, PCB (assumed).



Photograph 6: BTAS, TAS-R0013, ceiling lining(s), fibre cement, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	<b>Hazardous Building Materials (HBM) Register</b>		PLATE No: 3
	<b>Hastings Secondary College, Port Macquarie Campus</b>		REV: A
	CLIENT: NSW Department of Education		DATE: Mar-20





Photograph 7: BTAS, TAS-R0018, brick wall, expansion joint, mastic/sealant, asbestos detected by analysis.

 <b>Douglas Partners</b> Geotechnics   Environment   Groundwater	<b>Site Photographs</b>		PROJECT: 89754.01
	Hazardous Building Materials (HBM) Register		PLATE No: 4
	Hastings Secondary College, Port Macquarie Campus		REV: A
	CLIENT: NSW Department of Education	DATE:	Mar-20

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## **Appendix J**

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Laboratory Certificate(s) of Analysis

## **CERTIFICATE OF ANALYSIS 240018**

### **Client Details**

<b>Client</b>	Douglas Partners Pty Ltd
<b>Attention</b>	Tim Kulmar
<b>Address</b>	96 Hermitage Rd, West Ryde, NSW, 2114

### **Sample Details**

<b>Your Reference</b>	<b><u>89754.01 - Port Macquarie Campus</u></b>
<b>Number of Samples</b>	133 material, 22 paint, 3 swab
<b>Date samples received</b>	31/03/2020
<b>Date completed instructions received</b>	31/03/2003

### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.  
 Samples were analysed as received from the client. Results relate specifically to the samples as received.  
 Results are reported on a dry weight basis for solids and on an as received basis for other matrices.  
**Please refer to the last page of this report for any comments relating to the results.**

### **Report Details**

<b>Date results requested by</b>	07/04/2020
<b>Date of Issue</b>	07/04/2020
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b>	

#### **Asbestos Approved By**

Analysed by Asbestos Approved Identifier: Lucy Zhu  
 Authorised by Asbestos Approved Signatory: Lucy Zhu

#### **Results Approved By**

Jaimie Loa-Kum-Cheung, Metals Supervisor  
 Lucy Zhu, Asbestos Supervisor

#### **Authorised By**



Nancy Zhang, Laboratory Manager

Asbestos ID - materials						
Our Reference		240018-1	240018-2	240018-3	240018-4	240018-5
Your Reference	UNITS	AR0046-A01	AR0020-A01	AR0016-A01	Above AR0046-A01	AR0022-A02
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	40x35x10mm	20x15x3mm	40x35x3mm	25x20x5mm	40x30x5mm
Sample Description	-	Beige mica vermiculite	Black bituminous material	Beige fibre cement material & paint	Grey hardened mastic	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-6	240018-7	240018-8	240018-9	240018-10
Your Reference		AR0055-A01	AR0019-A02	AR0019-A01	AR0022-A01	AR0015-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	40x20x5mm	13x10x2mm	22x12x3mm	50x45x10mm	65x40x10mm
Sample Description	-	Beige fibre cement material	Black bituminous material	Grey hardened mastic	Beige mica vermiculite	Beige mica vermiculite
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
		Organic fibres detected	Organic fibres detected		Organic fibres detected	Organic fibres detected
					Synthetic mineral fibres detected	Synthetic mineral fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-11	240018-12	240018-13	240018-14	240018-15
Your Reference		B00A-EXT-A01	B00A-EXT-A02	B00A-EXT-A03	B00A-EXT-A04	B00A-EXT-A05
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	85x15x5mm	55x30x13mm	30x10x5mm	40x20x5mm	60x20x5mm
Sample Description	-	Black bituminous material	Black bituminous material	Grey hardened mastic	Grey hardened mastic	Grey hardened mastic
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected
		Organic fibres detected	Organic fibres detected	Organic fibres detected		
		Synthetic mineral fibres detected	Synthetic mineral fibres detected	Synthetic mineral fibres detected		
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	[NT]	[NT]



Asbestos ID - materials						
Our Reference	UNITS	240018-16	240018-17	240018-18	240018-19	240018-20
Your Reference		B00A-EXT-A06	B00A-EXT-A07	B00A-EXT-A08	B00A-EXT-A09	B00A-EXTA10
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	105x15x10mm	60x40x10mm	20x15x2mm	15x13x3mm	30x20x4mm
Sample Description	-	Black hardened mastic	Black bituminous material	Grey fibre cement material	Grey fibre cement material	Beige fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected	No asbestos detected  Organic fibres detected	Chrysotile asbestos detected  Amosite asbestos detected	Chrysotile asbestos detected  Amosite asbestos detected	No asbestos detected  Organic fibres detected
Trace Analysis	-	[NT]	No asbestos detected	[NT]	[NT]	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-25	240018-26	240018-27	240018-28	240018-29
Your Reference		BR0012-A03	BR0003-A01	BR0005-A02	BR0005-A01	BR0004-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	15x10x2mm	35x35x5mm	60x50x6mm	20x20x4mm	60x50x10mm
Sample Description	-	Brown hardened mastic	Beige mica vermiculite	Beige mica vermiculite	Black bituminous material	Beige mica vermiculite
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

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Asbestos ID - materials						
Our Reference		240018-31	240018-32	240018-33	240018-34	240018-35
Your Reference	UNITS	BR0002-A01	BR1021-A01	BR0020-A02	BR0019-A01	BR0003-A02
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	45x25x10mm	18x16x4mm	50x40x5mm	30x28x5mm	35x30x3mm
Sample Description	-	Beige mica vermiculite	Grey fibre cement material	Grey hardened mastic	Brown hardened mastic	Yellow hardened mastic
Asbestos ID in materials	-	No asbestos detected	Chrysotile asbestos detected  Amosite asbestos detected  Crocidolite asbestos detected	Chrysotile asbestos detected	No asbestos detected	No asbestos detected  Organic fibres detected
Trace Analysis	-	No asbestos detected	[NT]	[NT]	No asbestos detected	No asbestos detected

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Asbestos ID - materials						
Our Reference	UNITS	240018-36	240018-37	240018-38	240018-39	240018-40
Your Reference		BR0001-A01	BR0002-A02	BR0019-A04	BR0019-A02	BR0019-A03
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	55x50x10mm	30x25x5mm	10x8x1mm	25x20x3mm	20x20x2mm
Sample Description	-	Beige mica vermiculite	Yellow hardened mastic	Grey fibre cement material	Beige fibre cement material	Pink fibre cement material
Asbestos ID in materials	-	No asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	No asbestos detected	No asbestos detected
					Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	[NT]	[NT]	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-42	240018-43	240018-44	240018-45	240018-46
Your Reference		BR0012-A02	BR0012-A01	BR0020-A01	BR1019-A01	BR0018-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	40x30x2mm	70x30x10mm	50x30x10mm	75x50x10mm	75x50x10mm
Sample Description	-	Yellow hardened mastic	Beige mica vermiculite	Brown fibrous mastic	Beige mica vermiculite	Beige mica vermiculite
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
		Organic fibres detected		Organic fibres detected		
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

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Asbestos ID - materials						
Our Reference	UNITS	240018-47	240018-48	240018-49	240018-52	240018-53
Your Reference		BR0006-A01	BR0012-A05	BR0012-A04	CR0001-A02	CR0003-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	50x40x10mm	20x12x1mm	30x20x3mm	80x70x3mm	100x10x5mm
Sample Description	-	Beige mica vermiculite	White loose vitreous fibres	Beige hardened mastic	Blue vinyl tile & adhesive	Beige soft mastic
Asbestos ID in materials	-	No asbestos detected	No asbestos detected  Synthetic mineral fibres detected	No asbestos detected  Organic fibres detected	No asbestos detected  Organic fibres detected	No asbestos detected  Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-54	240018-55	240018-56	240018-57	240018-58
Your Reference		CR0015-A01	CR0012-A01	CR0012-A02	CR0012-A03	CR0010-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	40x12x3mm	40x25x4mm	35x20x3mm	20x13x4mm	25x20x3mm
Sample Description	-	Grey fibre cement material	Pink fibre cement material	Pink fibre cement material	Pink fibre cement material	Pink fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected  Amosite asbestos detected	No asbestos detected  Organic fibres detected	No asbestos detected  Organic fibres detected	No asbestos detected  Organic fibres detected	No asbestos detected  Organic fibres detected
Trace Analysis	-	[NT]	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

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Asbestos ID - materials						
Our Reference		240018-59	240018-60	240018-61	240018-66	240018-67
Your Reference	UNITS	CR0010-A02	CR0010-A03	CR0010-A04	B00B-SF-A01	BR1022-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	45x23x3mm	20x15x3mm	35x10x5mm	77x60x5mm	92x55x4mm
Sample Description	-	Beige fibre cement material	Pink fibre cement material	Grey fibre cement material	Grey fibre cement material	A)Grey vinyl tile B)Adhesive
Asbestos ID in materials	-	No asbestos detected  Organic fibres detected	No asbestos detected  Organic fibres detected	Chrysotile asbestos detected	Chrysotile asbestos detected  Amosite asbestos detected	A)Chrysotile asbestos detected  B)No asbestos detected  Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	[NT]	[NT]	No asbestos detected



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Asbestos ID - materials						
Our Reference	UNITS	240018-68	240018-69	240018-70	240018-71	240018-72
Your Reference		BR1008-A02	BR1017-A02	BR1017-A01	BR1016-A01	BR1002-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020	03-06/04/2020
Mass / Dimension of Sample	-	30x30x2mm	50x33x2mm	60x30x2mm	75x22x2mm	20x15x1mm
Sample Description	-	Yellow hardened mastic	White vitreous fibrous insulation	White vitreous fibrous insulation	Blue vinyl tile & adhesive	Black bituminous material
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	Chrysotile asbestos detected
		Organic fibres detected	Synthetic mineral fibres detected	Synthetic mineral fibres detected	Organic fibres detected	
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	[NT]

Asbestos ID - materials						
Our Reference	UNITS	240018-73	240018-74	240018-75	240018-76	240018-77
Your Reference		BR1006-A03	BR1006-A02	BR1023-A01	BR1023-A02	BR1003-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	35x25x5mm	42x16x5mm	40x33x5mm	35x20x2mm	65x60x4mm
Sample Description	-	Beige hardened mastic	Yellow hardened mastic	Grey hardened mastic	Beige mastic	Grey vinyl tile & fibrous backing
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
					Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-78	240018-79	240018-80	240018-81	240018-82
Your Reference		BR1008-A03	BR1006-A01	BR1022-A02	BR1007-A01	BR1008-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	50x20x5mm	85x50x4mm	100x75x4mm	65x55x4mm	73x43x4mm
Sample Description	-	Orange mastic	Green vinyl tile & fibrous backing	A)Grey vinyl tile B)Adhesive	Green vinyl tile & fibrous backing	Green vinyl tile & fibrous backing
Asbestos ID in materials	-	No asbestos detected	No asbestos detected  Organic fibres detected	A)Chrysotile asbestos detected  B)No asbestos detected  Organic fibres detected	No asbestos detected  Organic fibres detected	No asbestos detected  Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-83	240018-84	240018-85	240018-86	240018-87
Your Reference		B00L-EXT-A04	B00L-EXT-A03	B00L-EXT-A02	B00L-EXT-A01	LR0042-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	50x25x5mm	50x23x5mm	30x20x4mm	40x30x6mm	60x50x10mm
Sample Description	-	Black bituminous material	Grey hardened mastic	Grey hardened mastic	Grey hardened mastic	Beige mica vermiculite
Asbestos ID in materials	-	No asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	No asbestos detected
Trace Analysis	-	No asbestos detected	[NT]	[NT]	[NT]	No asbestos detected

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Asbestos ID - materials						
Our Reference	UNITS	240018-88	240018-89	240018-90	240018-91	240018-93
Your Reference		LR0042-A02	LR0042-A03	LR0042-A04	LR1056-A01	LR1057-A02
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	100x30x5mm	55x35x5mm	25x25x5mm	52x50x3mm	30x28x3mm
Sample Description	-	Grey hardened mastic	Brown fibrous matted material	Beige fibre cement material	Brown vinyl tile & bitumen adhesive	Grey hardened mastic
Asbestos ID in materials	-	Chrysotile asbestos detected	No asbestos detected  Organic fibres detected	Chrysotile asbestos detected  Organic fibres detected	Chrysotile asbestos detected	No asbestos detected  Organic fibres detected
Trace Analysis	-	[NT]	No asbestos detected	[NT]	[NT]	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-94	240018-95	240018-96	240018-97	240018-98
Your Reference		LR1057-A01	LR1016-A01	LR1025-A01	LR1031-A01	LR1031-A02
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	55x55x3mm	20x20x3mm	90x12x2mm	80x60x3mm	35x30x2mm
Sample Description	-	Brown vinyl tile & bitumen adhesive	Grey mastic	Grey mastic	Brown vinyl tile & bitumen adhesive	Grey mastic
Asbestos ID in materials	-	Chrysotile asbestos detected	No asbestos detected	No asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected
Trace Analysis	-	[NT]	No asbestos detected	No asbestos detected	[NT]	[NT]

Asbestos ID - materials						
Our Reference	UNITS	240018-99	240018-100	240018-101	240018-102	240018-103
Your Reference		LR0013-A02	LR0014-A01	LR0014-A02	LR0015-A02	LR0033-A02
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	22x17x5mm	60x50x10mm	13x13x5mm	37x25x5mm	50x13x2mm
Sample Description	-	Beige fibre cement material	Beige mica vermiculite	Beige fibre cement material	Grey vinyl tile & fibrous backing	Grey mastic
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-104	240018-105	240018-106	240018-110	240018-111
Your Reference		LR0033-A01	LR0018-A01	LR0015-A01	CR0004-A01	CR0005-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	65x60x6mm	60x50x5mm	70x60x5mm	110x80x3mm	63x27x3mm
Sample Description	-	Beige mica vermiculite	Beige mica vermiculite	Beige mica vermiculite	Blue vinyl tile & adhesive	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-112	240018-113	240018-114	240018-115	240018-116
Your Reference		CR0016-A01	CR0001-A01	B00C-EXT-A02	B00C-EXT-A04	B00C-EXT-A03
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	11x9x2mm	40x23x3mm	35x25x5mm	45x15x12mm	48x30x10mm
Sample Description	-	Beige fibre cement material	Black bituminous material	Black bituminous material	Black bituminous material	Black bituminous material
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	Chrysotile asbestos detected	No asbestos detected	No asbestos detected
		Organic fibres detected	Organic fibres detected		Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	[NT]	No asbestos detected	No asbestos detected



Asbestos ID - materials						
Our Reference	UNITS	240018-117	240018-118	240018-119	240018-120	240018-121
Your Reference		B00C-EXT-A01	TAS-R0013-A01	TAS-R0002-A01	TAS-R0018-A01	TAS-R0011-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	43x23x5mm	10x10x3mm	25x15x2mm	63x20x6mm	40x20x5mm
Sample Description	-	Grey hardened mastic	Grey fibre cement material	Beige fibre cement material	Grey hardened mastic	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected	Chrysotile asbestos detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected	Chrysotile asbestos detected Amosite asbestos detected
Trace Analysis	-	[NT]	[NT]	No asbestos detected	[NT]	[NT]

Asbestos ID - materials						
Our Reference	UNITS	240018-122	240018-123	240018-127	240018-128	240018-129
Your Reference		TAS-EXT-A01	TAS-EXT-A02	TR0018-A01	TR0006-A01	TR0006-A02
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	25x15x5mm	32x20x5mm	58x50x3mm	60x52x3mm	30x25x3mm
Sample Description	-	Grey hardened mastic	Beige fibre cement material	A)Brown vinyl tile B)Fibrous backing	A)Brown vinyl tile B)Adhesive	Grey rubbery mastic
Asbestos ID in materials	-	No asbestos detected	No asbestos detected Organic fibres detected	A)Chrysotile asbestos detected B)No asbestos detected Organic fibres detected	A)Chrysotile asbestos detected B)No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-130	240018-131	240018-132	240018-133	240018-134
Your Reference		B00T-EXT-A01	B00T-R0014-A02	B00T-EXT-A02	TR0008-A01	TR0016-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	17x16x5mm	50x20x5mm	70x25x5mm	40x30x3mm	50x25x5mm
Sample Description	-	Grey fibre cement material	Beige fibre cement material	Grey hardened mastic	Grey vinyl tile & fibrous backing	Grey fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected	No asbestos detected Organic fibres detected	Chrysotile asbestos detected
Trace Analysis	-	[NT]	No asbestos detected	[NT]	No asbestos detected	[NT]

Asbestos ID - materials						
Our Reference	UNITS	240018-135	240018-136	240018-137	240018-138	240018-141
Your Reference		TR0011-A02	TR0011-A01	TR0009-A01	TR0014-A01	MPC-R0002-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	20x20x2mm	50x26x5mm	90x60x5mm	68x35x2mm	70x35x5mm
Sample Description	-	Grey hardened mastic	Beige fibre cement material	Beige ceramic-like material	Grey vinyl tile & adhesive	Beige fibre cement material
Asbestos ID in materials	-	Chrysotile asbestos detected	No asbestos detected Organic fibres detected	No asbestos detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected
Trace Analysis	-	[NT]	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-142	240018-143	240018-144	240018-145	240018-146
Your Reference		MPC-R0018-A01	MPC-EXT-A01	MPC-R0006-A03	MPC-R0006-A01	MPC-R0006-A02
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	33x30x5mm	40x20x5mm	52x25x5mm	27x25x2mm	77x50x5mm
Sample Description	-	Beige fibre cement material	Brown rubbery & hardened mastic	Beige fibre cement material	Black bituminous membrane	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected	No asbestos detected Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference	UNITS	240018-147	240018-148	240018-149	240018-150	240018-151
Your Reference		MPC-R0001-A01	MPC-EXT-A04	MPC-EXT-A02	MPC-R0008-A01	MPC-R0008-A02
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	80x45x5mm	75x50x5mm	22x16x2mm	85x45x2mm	40x27x3mm
Sample Description	-	Beige fibre cement material	Beige fibre cement material	Beige fibre cement material	Orange vinyl tile & adhesive	Beige fibre cement material
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials				
Our Reference	UNITS	240018-152	240018-157	240018-158
Your Reference		MPC-EXT-A03	SR0002-EXT-A01	BR1002-A02
Date Sampled		01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material
Date analysed	-	03-07/04/2020	03-07/04/2020	03-07/04/2020
Mass / Dimension of Sample	-	30x8x4mm	17x15x3mm	35x30x10mm
Sample Description	-	Black hardened mastic	Beige fibre cement material	Beige hardened mastic
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected
			Organic fibres detected	
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected

Lead in Paint						
Our Reference	UNITS	240018-21	240018-22	240018-23	240018-24	240018-50
Your Reference		B00A-LP01	B00A-LP07	B00A-LP08	B00A-LP09	BR0002-LP01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		paint	paint	paint	paint	paint
Date prepared	-	06/04/2020	06/04/2020	06/04/2020	06/04/2020	06/04/2020
Date analysed	-	06/04/2020	06/04/2020	06/04/2020	06/04/2020	06/04/2020
Lead in paint	%w/w	0.30	0.006	0.076	0.34	0.01

Lead in Paint						
Our Reference	UNITS	240018-51	240018-62	240018-63	240018-64	240018-65
Your Reference		BR0002-LP02	CR0004-LP01	CR0015-LP01	CR0013-LP01	CR0004-LP02
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		paint	paint	paint	paint	paint
Date prepared	-	06/04/2020	06/04/2020	06/04/2020	06/04/2020	06/04/2020
Date analysed	-	06/04/2020	06/04/2020	06/04/2020	06/04/2020	06/04/2020
Lead in paint	%w/w	0.51	0.10	<0.005	0.91	0.14

Lead in Paint						
Our Reference	UNITS	240018-107	240018-108	240018-109	240018-124	240018-125
Your Reference		B00L-LP02	B00L-LP06	B00L-LP08	TAS-LP01	TAS-LP06
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		paint	paint	paint	paint	paint
Date prepared	-	06/04/2020	06/04/2020	06/04/2020	06/04/2020	06/04/2020
Date analysed	-	06/04/2020	06/04/2020	06/04/2020	06/04/2020	06/04/2020
Lead in paint	%w/w	0.24	0.083	0.060	0.12	0.22

Lead in Paint						
Our Reference	UNITS	240018-126	240018-139	240018-140	240018-153	240018-154
Your Reference		TAS-LP07	TR0014-LP01	B00T-EXT-LP01	MPC-0002-LP01	MPC-0008-LP01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		paint	paint	paint	paint	paint
Date prepared	-	06/04/2020	06/04/2020	06/04/2020	06/04/2020	06/04/2020
Date analysed	-	06/04/2020	06/04/2020	06/04/2020	06/04/2020	06/04/2020
Lead in paint	%w/w	0.096	0.007	0.05	0.18	0.23

Lead in Paint			
Our Reference	UNITS	240018-155	240018-156
Your Reference		MPC-0009-LP01	MPC-EXT-LP01
Date Sampled		01/03/2020	01/03/2020
Type of sample		paint	paint
Date prepared	-	06/04/2020	06/04/2020
Date analysed	-	06/04/2020	06/04/2020
Lead in paint	%w/w	0.36	0.090



**Client Reference: 89754.01 - Port Macquarie Campus**

Lead in swab				
Our Reference		240018-30	240018-41	240018-92
Your Reference	UNITS	BR0021-LD01	BR1011-LD01	LR1022-LD01
Date Sampled		01/03/2020	01/03/2020	01/03/2020
Type of sample		swab	swab	swab
Date prepared	-	03/04/2020	03/04/2020	03/04/2020
Date analysed	-	06/04/2020	06/04/2020	06/04/2020
Lead in Swabs	µg/swab	130	94	200

Method ID	Methodology Summary
<b>ASB-001</b>	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
<b>Metals-004</b>	Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS.
<b>Metals-005</b>	Digestion of Dust wipes/swabs and /or miscellaneous samples for Metals determination by ICP-AES/MS and/or CV-AAS

**Client Reference: 89754.01 - Port Macquarie Campus**

QUALITY CONTROL: Lead in Paint					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			06/04/2020	140	06/04/2020	06/04/2020		06/04/2020	[NT]
Date analysed	-			06/04/2020	140	06/04/2020	06/04/2020		06/04/2020	[NT]
Lead in paint	%w/w	0.005	Metals-004	<0.005	140	0.05	0.04	22	109	[NT]

QUALITY CONTROL: Lead in Paint					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	06/04/2020	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	06/04/2020	[NT]
Lead in paint	%w/w	0.005	Metals-004	[NT]	[NT]	[NT]	[NT]	[NT]	112	[NT]

**Client Reference: 89754.01 - Port Macquarie Campus**

QUALITY CONTROL: Lead in swab						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			03/04/2020	[NT]	[NT]	[NT]	[NT]	03/04/2020	[NT]
Date analysed	-			06/04/2020	[NT]	[NT]	[NT]	[NT]	06/04/2020	[NT]
Lead in Swabs	µg/swab	1	Metals-005	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]

## Result Definitions

<b>NT</b>	Not tested
<b>NA</b>	Test not required
<b>INS</b>	Insufficient sample for this test
<b>PQL</b>	Practical Quantitation Limit
<b>&lt;</b>	Less than
<b>&gt;</b>	Greater than
<b>RPD</b>	Relative Percent Difference
<b>LCS</b>	Laboratory Control Sample
<b>NS</b>	Not specified
<b>NEPM</b>	National Environmental Protection Measure
<b>NR</b>	Not Reported



## Quality Control Definitions

<b>Blank</b>	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
<b>Duplicate</b>	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
<b>Matrix Spike</b>	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
<b>LCS (Laboratory Control Sample)</b>	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
<b>Surrogate Spike</b>	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.
Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.	
The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.	
Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2	

## Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

## Report Comments

Samples 240018-67, 80, 127, 128; The supplied samples were sub-sampled (A & B) in order to accurately report the analytical results representative of the entire sample, as per AS4964-2004.

## **CERTIFICATE OF ANALYSIS 241024**

### **Client Details**

<b>Client</b>	Douglas Partners Pty Ltd
<b>Attention</b>	Tim Kulmar
<b>Address</b>	96 Hermitage Rd, West Ryde, NSW, 2114

### **Sample Details**

<b>Your Reference</b>	<b><u>89754.01 - Port Macquarie Campus</u></b>
<b>Number of Samples</b>	6 material, 2 paint
<b>Date samples received</b>	17/04/2020
<b>Date completed instructions received</b>	17/04/2020

### **Analysis Details**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

### **Report Details**

<b>Date results requested by</b>	17/04/2020
<b>Date of Issue</b>	17/04/2020
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. <b>Tests not covered by NATA are denoted with *</b>	

#### **Asbestos Approved By**

Analysed by Asbestos Approved Identifier: Lucy Zhu  
Authorised by Asbestos Approved Signatory: Lucy Zhu

#### **Results Approved By**

Jaimie Loa-Kum-Cheung, Metals Supervisor  
Lucy Zhu, Asbestos Supervisor

#### **Authorised By**



Nancy Zhang, Laboratory Manager

Asbestos ID - materials						
Our Reference	UNITS	241024-1	241024-2	241024-3	241024-4	241024-7
Your Reference		BOOB-EXT-A01	BOOB-EXT-A02	BOOB-EXT-A03	BOOB-EXT-A04	BOOL-R0013-A01
Date Sampled		01/03/2020	01/03/2020	01/03/2020	01/03/2020	01/03/2020
Type of sample		material	material	material	material	material
Date analysed	-	17/04/2020	17/04/2020	17/04/2020	17/04/2020	17/04/2020
Mass / Dimension of Sample	-	40x30x10mm	25x20x5mm	55x35x10mm	65x40x10mm	60x55x8mm
Sample Description	-	Black bituminous material	Brown soft mastic	Black bituminous material	Black bituminous material	Beige mica vermiculite
Asbestos ID in materials	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
		Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected	Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials		
Our Reference	UNITS	241024-8
Your Reference		BOOL-R0015-A01
Date Sampled		01/03/2020
Type of sample		material
Date analysed	-	17/04/2020
Mass / Dimension of Sample	-	30x30x5mm
Sample Description	-	Grey hardened mastic
Asbestos ID in materials	-	No asbestos detected
Trace Analysis	-	No asbestos detected

Lead in Paint			
Our Reference	UNITS	241024-5	241024-6
Your Reference		BOOB-EXT-LP01	BOOB-EXT-LP02
Date Sampled		01/03/2020	01/03/2020
Type of sample		paint	paint
Date prepared	-	17/04/2020	17/04/2020
Date analysed	-	17/04/2020	17/04/2020
Lead in paint	%w/w	0.14	0.48



Method ID	Methodology Summary
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**Client Reference: 89754.01 - Port Macquarie Campus**

QUALITY CONTROL: Lead in Paint						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			17/04/2020	[NT]	[NT]	[NT]	[NT]	17/04/2020	[NT]
Date analysed	-			17/04/2020	[NT]	[NT]	[NT]	[NT]	17/04/2020	[NT]
Lead in paint	%w/w	0.005	Metals-004	<0.005	[NT]	[NT]	[NT]	[NT]	97	[NT]

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