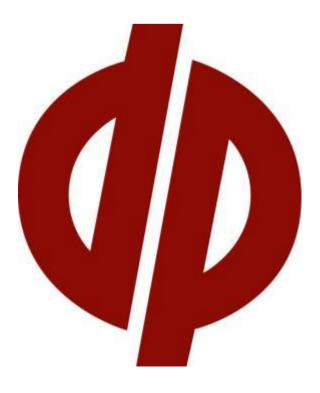


Hazardous Building Materials (HBM) Assessment

Narrabeen Sports High School (8512)

Prepared for School Infrastructure NSW (SINSW) c/- Johnstaff Projects (NSW) Pty Ltd

> Project 86973.02 March 2020



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The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, photographic logs and Register have been checked and reviewed for errors, omissions and inaccuracies.

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Executive Summary

Douglas Partners Pty Ltd (DP) was engaged by School Infrastructure NSW (SINSW), c/- Johnstaff Projects (NSW) Pty Ltd (Johnstaff Projects), to conduct a Hazardous Building Materials (HBM) assessment of Narrabeen Sports High School (NSHS) (the Site). The assessment comprised a non-destructive, non-intrusive, walkthrough visual inspection to identify substantial occurrences of HBM likely to impact the business case for redevelopment of the Site. This assessment included examination of the Department of Education (DoE) asbestos register for the school as well as a limited program of sample analysis and testing.

HBM were identified or assumed present during the survey as indicated in Table 1 below. Table 1 should be read and interpreted in conjunction with the remainder of this report.

Building / Area	Non-Friable Asbestos	Friable Asbestos	SMF Insulation	Lead Dust	Lead Paint	РСВ	Refrigerants			
B00A	✓	✓	✓	~	✓	✓*	×			
B00B	~	×	✓	✓	✓	\checkmark^{\star}	~			
B00C	~	×	\checkmark	✓	√#	✓*	~			
B00D	✓	✓	\checkmark	✓	✓	√*	×			
B00E	~	✓	✓	✓	√	√*	~			
B00F	~	×	✓	✓	✓	✓*	~			
B00G	~	✓	✓	✓	✓	×	×			
B00J & B00L	Building not id based on build		-			•	-			

Table 1: Summary of Results

SMF = synthetic mineral fibre, PCB = polychlorinated biphenyls (in fluorescent light capacitors), \checkmark = material identified or assumed present, \checkmark^* = PCB's generally not identified but, based on age of building construction, may be present in relatively minor quantities of older light fittings, $\checkmark^{\#}$ = Lead paint assumed present based on building age and test results obtained from other buildings, \star = material not identified and/or not assumed present.

Limited or no access was available to certain areas of 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.

A full HBM survey, which may include destructive/intrusive investigation, should be conducted to enable comprehensive identification and appropriate management of HBM at the Site. Such a survey should be:

- Considered during further planning of the proposed redevelopment; and
- Undertaken prior to any disturbance of the buildings at the Site that arises from maintenance, refurbishment, demolition and other relevant activity.



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.

This report should be read in its entirety and may not be reproduced other than in full, except with the prior written approval of DP.



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Hazardous Building Materials (HBM) Assessment Narrabeen Sports High School, Narrabeen NSW 2101

1. Introduction

Douglas Partners Pty Ltd (DP) was engaged by School Infrastructure NSW (SINSW), c/- Johnstaff Projects (NSW) Pty Ltd (Johnstaff Projects), to conduct a Hazardous Building Materials (HBM) assessment of Narrabeen Sports High School (8512), Narrabeen NSW 2101 (the Site).

The assessment comprised a non-destructive, non-intrusive, walkthrough visual inspection to identify substantial occurrences of HBM likely to impact the business case for redevelopment of the Site. For the purpose of this assessment HBM comprise:

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

The assessment also included examination of the Department of Education (DoE) asbestos register for the school as well as a limited program of sample analysis and testing.

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

The results of the survey, including details of the HBM identified and selected photographs, are provided in the HBM Registers (the Registers) in Appendices B to H.

Laboratory analysis certificates for the samples collected and analysed as part of the survey are provided in Appendix I. Not all sample analysis results in Appendix I apply to this Site however.

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



2. Site Description

2.1 General

Narrabeen Sports High School is located on the western side of Pittwater Road and is bounded by Namona Street to the north and Mullett Creek to the west and south. The school comprises the following buildings:

- B00A Constructed circa 1956 it comprises a two-storey building of brick construction built as slab on ground. This block holds the design and technology classrooms as well as the gymnasium;
- B00B Constructed circa 1954 it comprises a two-storey building of brick construction built as slab on ground. This block holds the science classrooms;
- B00C Constructed circa 1974 it comprises a two-storey building of brick construction built as slab on ground. This block holds the English classrooms;
- B00D Constructed circa 1954 it comprises a two-storey building of brick construction built as slab on ground. This block holds the library;
- B00E Constructed circa 1954 it comprises a three-storey building of brick construction built as slab on ground. This block holds the administration, general learning and senior learning;
- B00F Constructed circa 1974 it comprises a two-storey building of brick construction built as slab on ground. This block holds the art department; and
- B00G Constructed circa 1954 it comprises a large brick building built on brick piers. This block is a multi-purpose hall facility.

Buildings B00J (Building Services) and B00L (Storage), constructed in 2004 and 2000 respectively, are referenced in the DoE asbestos register but were not identified during DP's walkover assessment.

The building construction dates above are as indicated in the DoE asbestos register for the school.

The Northern Beaches Indoor Sports Centre (NBISC) (building B00I), Pittwater Sports Centre (building B00M) and building B00K did not form part of DP's scope of work.

Available drawings and / or plans are provided in Appendix A and indicate the general layout of the site and/or buildings surveyed.

2.2 Proposed Development

SINSW is looking to redevelop Narrabeen Sports High School and a number of other sites, including Narrabeen North Public School and NBISC, which form the Narrabeen Education Precinct. A precinct wide masterplan is currently being developed to meet the needs of the community and achieve efficiencies across the precinct. Whilst details of the proposed development are yet to be confirmed, it is understood that Narrabeen Sports High School is operating in aging and inefficient facilities and may require additional specialised space to enrich its programs

3. Method

The assessment consisted of a non-intrusive, non-destructive walkthrough visual inspection of safely accessible areas to identify substantial occurrences of HBM likely to impact the business case for redevelopment of the Site. The visual inspection was supplemented by a limited program of sample collection and laboratory analysis. DP did not attempt to identify each and every occurrence of HBM in the buildings inspected.

The visual 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*.

Samples of suspected lead paint were either collected by DP for laboratory analysis and/or were tested for lead in the field using 3M[™] LeadCheck[™] swabs. According to their instruction manual, the swabs reliably detect lead in paints at 0.5% and may indicate lead in some paint films as low as 0.06%. Bulk paint samples, where collected, contain approximately equal portions of all layers of paint at the location sampled, to the extent practicable, and therefore typically reflect the average lead content of the overall paint system at location sampled.

The presence of lead dust in ceiling cavities was assessed by visual inspection and in consideration of the age of the buildings being assessed.

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

The presence of PCBs fluorescent light capacitors was assessed by visual inspection of the exterior of the light fittings and in consideration of building age.

Refrigerants were assessed by visual inspection of building plant, primarily air conditioners.

Surveys typically proceed on a 'risk management' basis whereby priority is given to addressing material(s) likely to pose greatest risk 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 it is not practicable to include in Table 2 all risk factors that may be relevant to a given situation. Further, an estimate of risk may be provided for previously identified ACM that were inaccessible during DP's assessment.

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

Risk Factor	Score	Description									
	0	Non-friable (fibre reinforced vinyls, bituminous materials, adhesives)									
Friability	1	Non-Friable (fibre reinforced cement products such as wall and roof sheeting)									
Friability	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)										
	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.									
Condition	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.									
	0	Fully enclosed, encapsulated or sealed. ACM is entirely contained and the enclosure/encapsulation/sealing material is in good condition.									
Treatment	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.									
rreatment	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 of there is no treatment.									
	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.									
Accessibility	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 no effort.									
	0	Area generally not occupied. Normally very little or no activity. Activities may be highly restricted or area secured. Examples may include subfloor voids, ceiling cavities, confined spaces and other inaccessible areas.									
Activity	1	Low level occupancy. Some activity in parts or area only occupied periodically. Examples may include plant rooms and store rooms.									
Activity	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.									
	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 is limited but area is not particularly confined. Limited retention and/or build-up of airborne contaminants is possible.									
Ventilation	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 where reasonably practicable.



5. Results

5.1 General

The overall results of the survey are summarised in Table 1 in the Executive Summary of this report. Table 1 should be read and interpreted in conjunction with the remainder of this report. This includes Appendices B to H that contain further details of the HBM identified at the site, including the results of asbestos risk assessments, and other relevant notes. General and material-specific results are also included in the following Sections 5.2 to 5.7.

The assessment conducted by DP comprised a non-destructive, non-intrusive walkthrough inspection with limited sampling and analysis. HBM additional to those identified in this report are likely to be present in the buildings assessed. Such occurrences could be substantive in areas that were inaccessible (e.g., building cavities and voids) or where materials have been encapsulated/enclosed or are otherwise hidden/obscured (e.g., below flooring materials).

Limited or no access was available to certain areas as outlined in the Registers (Appendices B to H) and Table 4 below.

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.
Plant, equipment and services in general (e.g. electrical panels, HVAC plant, generators, pumps, motors etc.)	Limited	Inspection limited to safely accessible exterior surfaces. Isolation and detailed dismantling and/or demolition typically required for further assessment.
Confined spaces	Nil	Not included in survey scope.
Air handling ductwork (interior portion) and sheathed plant/pipe work	Nil	Generally enclosed behind metal linings. Inspection of typically requires isolation by HVAC technician and/or electrician and/or detailed dismantling/demolition.
Ceiling cavities and subfloor voids	Limited	Access generally limited by number and location of designated access points, height, services and clearance within cavity/void. Inspection of crawl spaces not included in survey scope.
Below flooring materials (e.g. carpet, vinyl sheeting etc.)	Limited	Access limited due to nature of assessment, fixtures/furnishings and potential for damage to current finish.
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. lift shafts, service risers)	Nil	Detailed dismantling/demolition typically required. Access generally impractical.

Table 4: Access Limitations*

* Refer also to the Registers (Appendices B to H).



5.2 ACM

Friable asbestos, in the form of loose fibre and / or insulation material in poor condition, was identified in sand / soil in the subfloor of building B00G. The source of the asbestos could not be clearly identified and, while contamination is generally assumed present throughout the building subfloor, the extent of any potential contamination beyond this area could not be confirmed. Visual inspection of the subfloor also indicated relatively recent and unauthorised occupation of the subfloor (possibly by school students).

The existing DoE asbestos register for the Site indicates that a relatively thorough assessment for asbestos in vermiculite ceiling coatings, involving detailed composite sampling and analysis, has previously been undertaken at the Site (refer page 2 of the DoE asbestos register). Notwithstanding this, the DoE asbestos register:

- Indicates that, for some occurrences of vermiculite, limited samples have been collected and analysed for asbestos (e.g., B00E R0014); and
- Identifies several occurrences of vermiculite where:
 - Composite sampling appears to have been undertaken but the analysis results are not specified (e.g., B00E R1012, R1019 and R1020); and / or
 - Multiple, incomplete and/or potentially inconsistent entries are provided for vermiculite (e.g., B00E R0002, R006 and R0014).

Various items in the DoE asbestos register are reported as "No Asbestos Detected" however sample reference numbers are not always provided (whereas the DoE register allows for this as indicated by the sample reference numbers provided for certain other materials). As such, it is uncertain whether past assessment of these materials is based on visual inspection, direct sampling and analysis or cross-referencing of analysis results.

Limited or no access was generally available to building subfloor areas as buildings were typically constructed slab-on-ground. Subfloor areas often contain ACM such as asbestos cement packing (e.g., between brick piers and timber joists) and asbestos cement fragments to ground surfaces. The potential presence of such ACM in subfloors should generally not be disregarded due to the limitations often associated with assessment of subfloor areas.

Asbestos containing floor tiles were identified or assumed present in several buildings (e.g., B00A, B00B, B00C, B00E and B00F). Additional asbestos containing flooring materials (such as vinyl tiles, adhesives and / or backing materials) may also be present below carpets and / or other floor coverings which rendered them inaccessible during this walkover inspection and/or previous assessments by other consultants.

ACM may occur within electrical cabinets / cupboards throughout the buildings assessed. Such ACM may include electrical backing boards, fuse insulation and cabinet / cupboard linings.

Putties/mastics to windows, air handling plant and duct work, and similar items, may often contain asbestos. Such putties / mastics were identified, for example, in buildings B00A and B00D and B00E and may also be present in other areas of the Site.



5.3 SMF Insulation

Vermiculite was identified to ceilings in buildings B00E and B00F and it is possible that this material contains SMF.

As a precaution, SMF materials (e.g., insulation) are generally assumed present within ceiling and wall cavities throughout the buildings inspected (e.g., above set ceilings and/or within sheeted and framed walls).

Relatively minor occurrences of SMF may be present to building plant/services such as hot/boiling water units. SMF may also be present in/around air conditioning plant and air handling duct work.

5.4 Lead Dust

Limited or no access was generally available to building ceiling cavities due to height of the ceilings and/or the availability of designated access points. Based on the age of buildings B00A through B00G, and as a precaution, it is generally assumed that ceiling cavity dust in these buildings contains elevated levels of lead. Buildings B00J and B00L are understood to have been constructed circa 2000's and it is considered less likely that the ceiling cavities of these buildings, if present, contain elevated concentrations of lead in dust.

5.5 Lead Paint

Lead paints were identified or assumed present in a number of buildings (e.g., B00A, B00B, B00D, B00E, B00F and B00G). Based on the age of building B00C, the test results obtained from other buildings, and as a precaution, it is generally assumed that paints in building B00C may contain lead.

Buildings B00J and B00L are understood to have been constructed circa 2000's and it is considered unlikely that these buildings contain lead paints.

5.6 PCB

The capacitors of fluorescent light fittings were generally inaccessible due to electrical hazard. Visual inspection of fluorescent light fittings indicates that a program of PCB removal has previously been undertaken and / or that these fittings are generally of a newer type that is unlikely to house capacitors that contain PCBs. Notwithstanding this, capacitors containing PCBs may be present in a relatively minor quantity of older fluorescent light fittings in buildings B00A through B00F.

Buildings B00J and B00L are understood to have been constructed circa 2000's and it is considered unlikely that fluorescent light capacitors containing PCBs are present in these buildings.



5.7 Refrigerants

Air conditioning plant containing refrigerants was identified or assumed present in buildings B00B, B00C, B00E and B00F. Such plant typically comprises split-system air conditioning units or similar.

6. Recommendations

A summary recommendation for each HBM identified or assumed present at the site is provided in the Registers (Appendix B - H).

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 / unidentified HBM, should be considered during the risk assessment and planning process for any proposed work at the site or site use. Additional targeted inspection, sampling and analysis for HBM should be considered including prior to any work that may result in the disturbance of such HBM. Additional inspections may include destructive / intrusive inspections however these can generally only be undertaken once the relevant buildings / areas have 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.

The assessment conducted by DP is limited in nature and should not be relied on for the purpose of identifying and managing HBM during building work (e.g., maintenance, refurbishment and / or demolition work). A full HBM survey, which may include destructive/intrusive investigation, should be conducted to enable comprehensive identification and appropriate management of HBM at the Site. Such a survey should be:

- Considered during further planning of the proposed redevelopment; and
- Undertaken prior to any disturbance of the buildings at the Site that arises from maintenance, refurbishment, demolition and other relevant activity.

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 hazardous materials a risk assessment should be conducted and Safe Work Method Statement (SWMS) developed. The SWMS should outline the controls necessary to ensure that the risk of exposure to the hazardous materials is adequately controlled.

Hazardous materials remediation and removal work should be undertaken in controlled conditions.

Waste should be assessed and classified for disposal in accordance with 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 ACM

Access to the subfloor of building B00G should be restricted immediately so as to prevent any unauthorised access and asbestos warning signage should be installed at all entrances to the subfloor area. Any persons required to enter the subfloor area should undertake a risk assessment and implement suitable controls to prevent exposure and environmental contamination. Consideration should also be given to:

- Engaging a Licensed Asbestos Assessor (LAA) to conduct a further detailed assessment of the asbestos contamination present in / around the subfloor of B00G to help confirm the extent and potential source(s) of such contamination and requirements for management / remediation;
- Conducting air monitoring in / around the subfloor area of building B00G to confirm airborne asbestos fibre concentrations;
- Assessing the potential exposure and health risk(s) posed to any unprotected persons who have accessed the subfloor area and notifying such persons, if required, as may be required under the NSW WHS Regulation;
- Removing the contamination, or implementing other appropriate controls to prevent exposure and environmental contamination, if it is reasonably practicable to do so.

Additional vermiculite sampling and analysis should be conducted, where necessary, in accordance with the procedure reportedly agreed between DoE and SafeWork NSW (refer page 2 of the DoE asbestos register). Such sampling and analysis should occur as part of the planning process for the proposed redevelopment and prior to any disturbance of the vermiculite that may contain asbestos. If it can be clearly established that such sampling has already been completed, and analysis results are adequately confirmed, then:

- The DoE asbestos register should be updated to reflect the results; and
- This report prepared by DP should be updated to reflect the results.

The potential presence of ACM in building subfloor areas (e.g., asbestos cement packing materials and asbestos cement fragments to ground surfaces) should be duly considered. The need to conduct additional investigation of these areas, which may require the use of intrusive / destructive inspection

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techniques, should be evaluated during planning for the proposed redevelopment. Any additional investigations undertaken should occur prior to disturbance of the subfloor areas.

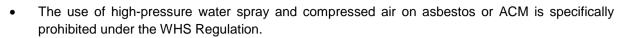
The potential presence of asbestos containing flooring materials (e.g., vinyl tiles, adhesive and backing materials) remaining unidentified below current flooring materials should be duly considered. The need to conduct additional investigation for such materials, which may require use of intrusive / destructive inspection techniques, should be evaluated during planning for the proposed redevelopment. Any additional investigations undertaken should occur prior to disturbance of the flooring materials.

Consideration should be given to obtaining sample refence numbers and analysis reports from the DoE for the materials identified in the DoE asbestos register as "No Asbestos Detected". This is to confirm whether these materials have been directly sampled and analysed for asbestos or not. This should be undertaken during planning for the proposed development and prior to disturbance of these materials. Additional investigation and / or sampling and analysis may be required if results are inconclusive.

Window putties and mastics, similar to those identified in buildings B00A, B00D and B00E should, as a precaution, be assumed to contain asbestos unless adequate sampling and analysis of these materials has demonstrated otherwise.

The following recommendations apply to management of ACM in general:

- 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 (Regulation 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. 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.



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- 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 removal Contractor.
- Removal of 10 m² or more of non-friable asbestos must only be undertaken by a Class A or Class B licensed asbestos removal contractor.
- Air monitoring is required 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 and 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 asbestos removal contractor.
- All waste should be classified for disposal in accordance with the 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)

Consideration should be given to further assessing the potential presence of SMF in ceiling vermiculite. This may include:

- Obtaining and reviewing relevant laboratory analytical reports held by DoE for previous sampling and analysis conducted at the site (per the DoE asbestos register); and / or
- Conducting further sampling and analysis of vermiculite, including where such sampling and analysis is required to further assess the presence of asbestos (refer Section 6.2).

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

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

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:

- WorkCover NSW Safe management of synthetic mineral fibres (SMF) glasswool and rockwool; and
- 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 relevant 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 should not exceed the relevant SWA exposure standards outlined in Table 4 below.

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 ³ (inhalable dust)
Refractory ceramic fibres (RCF), special purpose glass fibres and high biopersistence MMVF	0.5 f/mL (respirable) 2 mg/m ³ (inhalable dust)

Table 4: SWA Exposure Standards for SMF



SMF waste should be disposed at a licensed waste collection facility. 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 Lead Dust

Laboratory analysis results for lead dust should be taken as approximate 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/m² (as lead).
- Interior window sills: 5 mg/m² (as lead); and
- Exterior surfaces: 8 mg/m² (as lead).

The United States Environmental Protection Authority (US EPA) 40 CFR Part 745 *Lead; Identification of Dangerous Levels of Lead; Final Rule* establishes the following standards for lead hazard identification:

- Floors 40 μg/ft² (~0.43 mg/m²) lead;
- Interior Window sills 250 μg/ft² (~2.7 mg/m²) lead; and
- Window troughs 400 µg/ft² (~4.3 mg/m²) 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 sensitive nature of the site, a lead concentration of 0.5 mg/m^2 may be used to identify potentially hazardous conditions.

Where the concentration of lead in dust exceeds 0.5 mg/m², or elevated concentrations of lead are assumed, 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 Safe Work Method Statement (SWMS) for the work. The SWMS must identify controls that ensure the risk of exposure to

lead 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; or
- Significant disturbance of lead dust is likely due to maintenance, refurbishment or demolition work 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 removal contractor.

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/m³. Air monitoring for lead may be required based on the results of the 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.

6.5 Lead Paint

The potential presence of lead paint(s) at the Site should be considered during the risk assessment and planning process for any proposed works or site use. 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 (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.



In accordance with AS4361.1 - 2017:

- 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; and
- A project should not be classified as free of lead, unless all samples within the area are proven to be free of lead

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 TWA exposure standard for lead (inorganic dusts and fumes) is 0.05 mg/m³. 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):

- 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).
- 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 take into account 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 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 metal canister-type capacitors that may contain PCB's. Any capacitors containing or suspected to contain PCB should be removed by a suitably qualified and experienced contractor.

PCB containing capacitors 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 suitably qualified and experienced contractor as soon as possible. Access to areas containing leaking capacitors should be suitably restricted.

The conveyance and disposal of PCB material and PCB waste is subject to special requirements outlined in the *Polychlorinated Biphenyl (PCB) Chemical Control Order* 1997.

All disposal receipts should be retained.

6.7 Refrigerants

Refrigerants should be recovered by a licensed technician when equipment reaches end of life and prior to any significant disturbance such as demolition, refurbishment or maintenance works. Refrigerant must not be discharged or 'vented' except in a very limited number of specified circumstances.

All work on equipment containing refrigerants must be done by appropriately licensed technicians and typically:

- A Refrigerant Handling License is required to decant refrigerant, manufacture, install, commission, maintain or service equipment, irrespective of whether or not a controlled refrigerant is present. This license also covers decommissioning or disposal of equipment containing controlled refrigerant;
- A Refrigerant Trading Authorisation is required for any individual or business that acquires, possesses or disposes of controlled refrigerant;
- A Restricted Refrigerant Recoverer License is one of the license options for individuals (including a repairer or dismantler) who remove controlled refrigerant from any refrigeration or air conditioning systems; and
- Additional licensing requirements apply for working with some or all refrigerants in some States and Territories.

Refrigerants should be managed, where required, in accordance with relevant legislative requirements including the Ozone Protection Act 1989 (NSW).



The relevant state authority should always be consulted to ensure legal requirements are followed.

7. Limitations

Douglas Partners (DP) has prepared this report (or services) for this project at Narrabeen Sports High School in accordance with DP's proposal SYD190874.P.001.Rev1 dated 3 September 2019. The work was carried out under SINSW Standard Form or Agreement made on 16 October 2019. This report is provided for the exclusive use of SINSW 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 the limited scope of work engaged, 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 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 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 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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Appendix A

About This Report

Drawings and Plans



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.

4.0 Existing Building Report

4.1 AMU numbering

Narrabeen Sports High School (NSHS)

Buildings:

- A Tech. & Applied Studies, Gym 1974
- B Science, Physical Education 1974
- C General Learning 1974
- D Library 1974
- E Admin, General Learning 1954 Brick / block
- F Art 1970
- G Multipurpose Facilities, Amenities -1954
- K Commercial Use

Narrabeen North Public School (NNPS)

Buildings:

A - Binidome, Admin, Staff, Storage - 1973
B - Binidome, OSHC Programs - 1973
H - Staff - 1950s Timber
J - Homebases - 1950s Timber
K - Programs, Craft - 1938
N - Homebases - 1950s Timber
P - Homebases - 1950s Timber
R - Homebases, Amenities - 1958
S - Homebases - 1950s Timber
T - Homebases - 2001 Brick / block
U - COLA, Canteen, Amenities - 2009
V - Library, Homebases - 2010
1 to 14 - Demountable Homebases

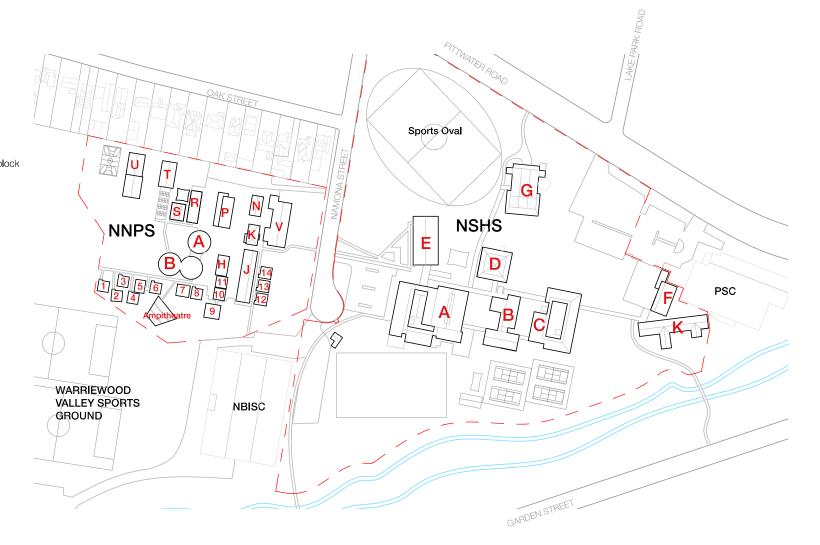
Northern Beaches Indoor Sport Centre (NBISC) Existing: 6 courts

Existing: 6 courts

Pittwater Sports Centre (PSC)

NEIGHBOURS Warriewood Valley Sports Ground





Appendix B

B00A Register and Plates



						Asbestos Risk Assessment						t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00A	exterior - eave lining	west facing eave	flat fibre cement sheeting	not provided in DoE register	asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material appears to have been removed. Confirm removal by obtaining copy of the asbestos clearance certificate from DoE.
B00A	throughout	windows	brown putty/mastic	234842-S12	asbestos detected by analysis	0	2	1	3	2	1	9	Low	1	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	R0010 - Design Room	floor (below newer floor covering/s)	residual vinyl tile and/or associated debris	not provided in DoE register	asbestos detected by analysis	0	2	1	3	2	1	9	Low	2	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	R0013 - Design Room	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	3	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	R0019 - Main switchboard	floor	compressed fibre cement sheet	not provided in DoE register	asbestos detected by analysis	1	0	3	3	1	1	9	Low	4	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	R0019 - Main switchboard	electrical backing board	flat fibre cement sheet	not provided in DoE register	asbestos (assumed)	0	1	1	3	1	1	7	Low	5	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	R0021 - General Storeroom	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material appears to have been removed. Confirm removal by obtaining copy of the asbestos clearance certificate from DoE.
B00A	R0022 - Sports Equipment Store	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	2	1	3	2	1	9	Low	6	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).



						Asbestos Risk Assessment						t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00A	R0052 - Shower and Toilets	walls	typical grey paint	spot test L13	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	internal, throughout	walls	typical blue paint	spot test L14	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	Level 1, internal	ceiling voids	insulation	N/A	SMF identified visually	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	Level 1, internal	ceiling void, steel beams	typical grey paint	spot test L15	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	No hazardous material identified.
B00A	R0024 - Gymnasium	steel beams	red paint	N/A	lead paint (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11	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.
B00A	R1001 - Food Technology	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	Material appears to have been removed. Confirm removal by obtaining copy of the asbestos clearance certificate from DoE.
B00A	R1002 - Laundry	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material appears to have been removed. Confirm removal by obtaining copy of the asbestos clearance certificate from DoE.
B00A	R1003 - Preparation - Materials	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material appears to have been removed. Confirm removal by obtaining copy of the asbestos clearance certificate from DoE.



<u>.</u>						Asbestos Risk Assessment									
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00A	R1004 - Pantry	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material appears to have been removed. Confirm removal by obtaining copy of the asbestos clearance certificate from DoE.
B00A	R1005 - Pantry	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material appears to have been removed. Confirm removal by obtaining copy of the asbestos clearance certificate from DoE.
B00A	R1006 - Food Technology	floor	original (orange) vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material appears to have been removed. Confirm removal by obtaining copy of the asbestos clearance certificate from DoE.
B00A	R1006 - Food Technology	floor	current vinyl flooring	S234842-13	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00A	R1023 - Plant	air handling duct work	yellow paint	spot test L16	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	Any areas of damaged/flaking lead paint and any associated debris should be removed by a suitably qualified and experienced contractor. Consider sealing or enclosing any remaining lead paint per AS4361. Reinspect condition on a regular basis. Avoid disturbance. Implement appropriate controls to prevent exposure and environmental contamination during building work.
B00A	R01027 - Cleaning Store	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	2	1	3	2	1	9	Low	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.
B00A	R1026 - Resources Store	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	2	1	3	2	1	9	Low	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.
B00A	R1025 - Movement	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	2	1	3	2	1	9	Low	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.



						Asbestos Risk Assessment									
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00A	R1017 - General Storeroom	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	2	3	2	1	9	Low	14	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	R1033 - Classroom	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	2	3	2	1	9	Low	13	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	R1034 - Control Room	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	15	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	R1035 - Uniform Shop	floor	vinyl tiles	similar R1033	asbestos (assumed)	0	1	2	3	2	1	9	Low	N/A	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00A	ceiling voids	throughout	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.
B00A	R0008 - Cleaning Store	floor	vinyl tiles	not provided in DoE register		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00A	building in general	building cavities (e.g. walls, ceilings)	insulation materials (if present) in general	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.



[As	bestos F	Risk Ass	essmen	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00A	building in general	fluorescent light fittings	capacitors, insulating oil	N/A	generally nil PCB assumed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Inspect capacitors in detail when safe access available such that PCB containing capacitors can be removed prior to any disturbance of light fittings. Removal and disposal to be in accordance with relevant regulatory requirements such as the ANZECC PCB Management Plan, April 2003 and NSW EPA PCB Chemical Control Order 1997.
B00A	air handling duct work	heater bank(s)	fibrous insulation (if present)	N/A	asbestos (assumed)	3	1	3	1	1	3	12	Moderate	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.



Photograph 1: B00A, throughout , windows, brown putty/mastic , asbestos detected by analysis.



Photograph 2: B00A, R0010 - Design Room , floor (below newer floor covering/s), residual vinyl tile and/or associated debis, asbestos detected by analysis

Site Photographs	PROJECT:	86973.02
Hazardous Building Materials (HBM) Assessment	PLATE No:	1
Narrabeen Sports High School (8512)	REV:	А
CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 3: B00A, R0013 - Design Room, floor, vinyl tiles, asbestos detected by analysis.



Photograph 4: B00A, R0019 - Main switchboard, floor, compressed fibre cement sheet, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	2
Geotechnics Environment Groundwater	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 5: B00A, R0019 - Main switchboard, electrical backing board, flat fibre cement sheet, asbestos (assumed).

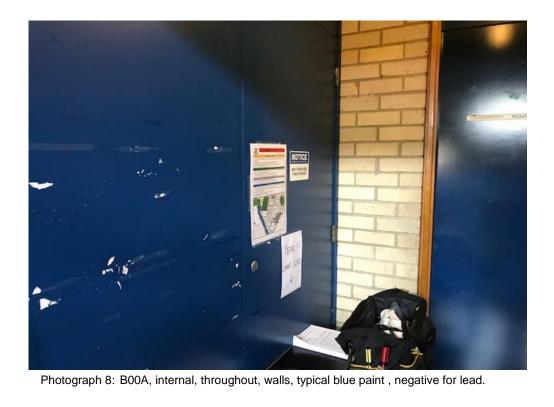


Photograph 6: B00A, R0022 - Sports Equipment Store , floor, vinyl tiles, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	3
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 7: B00A, R0052 - Shower and Toilets, walls, typical grey paint, negative for lead.



	Site Photographs	PROJECT:	86973.02
Douglas Partners Geotechnics Environment Groundwater	Hazardous Building Materials (HBM) Assessment	PLATE No:	4
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 9: B00A, Level 1, internal, ceiling voids, insulation, SMF identified visually.



Photograph 10: B00A, Level 1, internal, ceiling void, steel beams , typical grey paint, negative for lead.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	5
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 11: B00A, R0024 - Gymnasium , steel beams, red paint, lead paint (assumed).



Photograph 12: B00A, R1023 - Plant , air handling duct work, yellow paint, positive for lead.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	6
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 13: B00A, R1033 - Classroom, floor, vinyl tiles, asbestos detected by analysis



analysis

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	7
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 15: B00A, R1034 - Control Room, floor, vinyl tiles, asbestos detected by analysis



Photogrtaph 16: B00A, R1001 - Food Technology, floor, vinyl tiles, asbestos detected by analysis

Site Photographs	PROJECT:	86973.02
Hazardous Building Materials (HBM) Assessment	PLATE No:	8
Narrabeen Sports High School (8512)	REV:	А
CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20

Appendix C

B00B Register and Plates



								Asl	oestos F	Risk Ass	essmen	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00B	R0002 - Staff Toilet	ceiling	yellow paint	spot test L7	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Any areas of damaged/flaking lead paint and any associated debris should be removed by a suitably qualified and experienced contractor. Consider sealing or enclosing any remaining lead paint per AS4361. Reinspect condition on a regular basis. Avoid disturbance. Implement appropriate controls to prevent exposure and environmental contamination during building work.
B00B	R0003 - Cleaning Store	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	2	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R0004 - Staff Study	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	Material appears to have been removed. Confirm removal by obtaining copy of the asbestos clearance certificate from DoE.
B00B	R0005 - Staff Study	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	similar 3	Material appears to have been removed. Confirm removal by obtaining copy of the asbestos clearance certificate from DoE.
B00B	R0011 - Laboratory	floor	vinyl tiles	234842-S7	asbestos detected by analysis	0	1	1	3	2	1	8	Low	4	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R0011 - Laboratory	heat proof mat	fibre cement sheeting	not provided in DoE 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 hazardous material identified.
B00B	R0012 - Preparation Room	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	5	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R0013 - Lift	lift plant and lift shaft	internal components	N/A	asbestos (assumed)	1	2	2	0	1	2	8	Low	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.



								Asl	bestos F	Risk Ass	essmen	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00B	R0014 - Laboratory	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	7	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R0014 - Laboratory	void under teacher's sink	fibrous debris	234842-S8	asbestos detected by analysis	2	3	3	1	0	2	11	Moderate	8	Remove asbestos if it is reasonably practicable to do so and if access is periodically required to this area. As an interim control ensure access is adequately restricted and the access point(s) are clearly labelled with asbestos waring labels/signs.
B00B	R0014 - Laboratory	walls	blue paint	spot test L8a	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	R0016 - Sports Equipment Store	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	N/A	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R1002 - Staff Female Toilet	wall	incinerator, internal component(s)	N/A	asbestos (assumed)	2	1	0	0	1	0	3	Low	9	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.
B00B	R1003 - Cleaning Store	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	10	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R1004 - Office/store	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	11	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R1005 - Chemical Store	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	12	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R1007 - Laboratory	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	13	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).



								Ast	oestos F	Risk Ass	essmen	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00B	R1007 - Laboratory	walls	white paint	spot test L8b	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	R1009 - Preparation Room	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	14	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R1010 - Laboratory	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	15	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R1011 - Laboratory	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	16	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R1012 - Laboratory	floor	vinyl tiles	N/A	asbestos (assumed)	0	1	1	3	2	1	8	Low	17	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R1014 - Laboratory	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	18	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00B	R1020 - Preparation Room	floor	vinyl tiles	N/A	asbestos (assumed)	0	1	1	3	2	1	8	Low	19	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).



								Asl	oestos F	Risk Ass	essmen	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00B	ceiling voids	throughout	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.
B00B	building in general	building cavities (e.g. walls, ceilings)	insulation materials (if present) in general	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.
B00B	building in general	fluorescent light fittings	capacitors, insulating oil	N/A	generally nil PCB assumed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inspect capacitors in detail when safe access available such that PCB containing capacitors can be removed prior to any disturbance of light fittings. Removal and disposal to be in accordance with relevant regulatory requirements such as the ANZECC PCB Management Plan, April 2003 and NSW EPA PCB Chemical Control Order 1997.
B00B	building in general	air conditioning plant	refrigerants	N/A	present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ensure air conditioning units are decommissioned and refrigerant is reclaimed by an appropriately licensed technician prior to general demolition. Refrigerants should not be discharged or vented to the environment.
B00B	laboratories in general	void under teacher's sink	fibrous debris	similar 234842· S8	asbestos (assumed)	2	3	3	1	0	2	11	Moderate	N/A	Remove asbestos if it is reasonably practicable to do so and if access is periodically required to this area. As an interim control ensure access is adequately restricted and the access point(s) are clearly labelled with asbestos waring labels/signs.

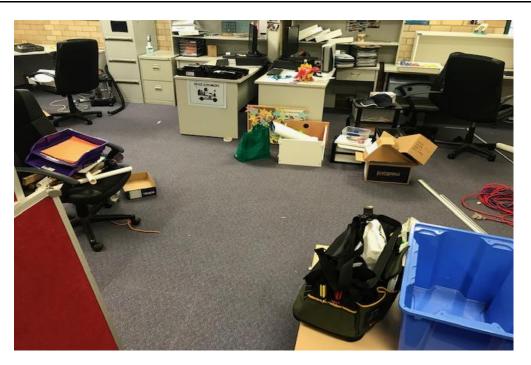


Photograph 1: B00B, R0002 - Staff Toilet, ceiling, yellow paint, positive for lead.



Photograph 2: B00B, R0003 - Cleaning Store, floor, vinyl tiles, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	1
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 3: B00B, R0004 - Staff Study , floor, vinyl tiles, material removed.



Photograph 4: B00B, R0011 - Laboratory , floor, vinyl tiles, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	2
Geotechnics Environment Groundwater	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20

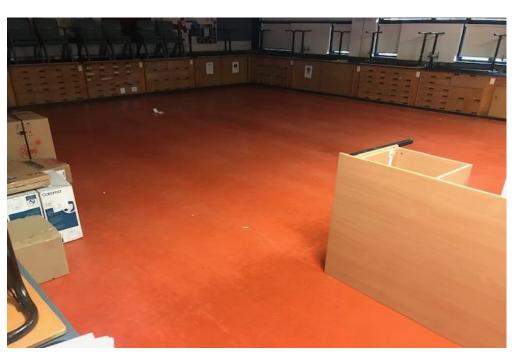


Photograph 5: B00B, R0012 - Preperation Room, floor, vinyl tiles, asbestos detected by analysis.



Photograph 6: B00B, R0013 - Lift, lift plant and lift shaft, internal components, asbestos (assumed).

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	3
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 7: B00B, R0014 - Laboratory , floor, vinyl tiles, asbestos detected by analysis.



	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	4
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 9: B00B, R1002 - Staff Female Toilet, wall, incinerator, internal component(s), asbestos (assumed).



Photograph 10: B00B, R1003 - Cleaning Store , floor, vinyl tiles, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	5
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 11: B00B, R1004 - Office/store, floor, vinyl tiles, asbestos detected by analysis.



Photograph 12: B00B, R1005 - Chemical Store, floor, vinyl tiles, asbestos detected by analysis.

Site Photographs	PROJECT:	86973.02
Hazardous Building Materials (HBM) Assessment	PLATE No:	6
Narrabeen Sports High School (8512)	REV:	А
CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 13: B00B, R1007 - Laboratory, floor, vinyl tiles, asbestos detected by analysis.



Photograph 14: B00B, R1009 - Preperation Room, floor, vinyl tiles, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Geotechnics Environment Groundwater	Hazardous Building Materials (HBM) Assessment	PLATE No:	7
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 15: B00B, R1010 - Laboratory , floor, vinyl tiles, asbestos detected by analysis.



Photogrtaph 16: B00B, R1011 - Laboratory, floor, vinyl tiles, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	8
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 17: B00B, R1012 - Laboratory, floor, vinyl tiles, asbestos (assumed).



Photograph 18: B00B, R1014 - Laboratory, floor, vinyl tiles, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	9
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 19: B00B, R1020 - Preperation Room, floor, vinyl tiles, asbestos (assumed).

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	10
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20

Appendix D

B00C Register and Plates



							Asbestos Risk Assessment					t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibilit y	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00C	R0013 - Resources Store	floor	vinyl tiles	234842-S6	asbestos detected by analysis	0	1	1	3	2	1	8	Low	1	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	R0014 - Staff Toilet	wall	cream paint	spot test L5	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	No hazardous material identified.
B00C	R0015 - Cleaning Store	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	3	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	R0017 - Movement	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	4	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	R1017 -Cleaning Store	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	5	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	exterior	throughout	typical blue paint	spot test L6	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	No hazardous material identified.
B00C	first floor	ceiling cavity	insulation	N/A	SMF identified visually	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).



							Asbestos Risk Assessment					t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibilit y	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00C	ceiling voids	throughout	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.
B00C	R1019 - Movement	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	N/A	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00C	building in general	building cavities (e.g. walls, ceilings)	insulation materials (if present) in general	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.
B00C	building in general	fluorescent light fittings	capacitors, insulating oil	N/A	generally nil PCB assumed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Inspect capacitors in detail when safe access available such that PCB containing capacitors can be removed prior to any disturbance of light fittings. Removal and disposal to be in accordance with relevant regulatory requirements such as the ANZECC PCB Management Plan, April 2003 and NSW EPA PCB Chemical Control Order 1997.
B00C	building in general	air conditioning plant	refrigerants	N/A	present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ensure air conditioning units are decommissioned and refrigerant is reclaimed by an appropriately licensed technician prior to general demolition. Refrigerants should not be discharged or vented to the environment.



	• • • •					Asbestos Risk Assessment									
							ASDESIOS RISK ASSESSMENT								
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibilit y	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
BOOC	building in general	throughout	paint(s)	N/A	may contain lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Based on the age of building B00C, the test results obtained from other buildings, and as a precaution, it is generally assumed that paints in building B00C may contain lead. Any areas of damaged/flaking lead paint and any associated debris should be removed by a suitably qualified and experienced contractor. Consider sealing or enclosing any remaining lead paint per AS4361. Reinspect condition on a regular basis. Avoid disturbance. Implement appropriate controls to prevent exposure and environmental contamination during building work.

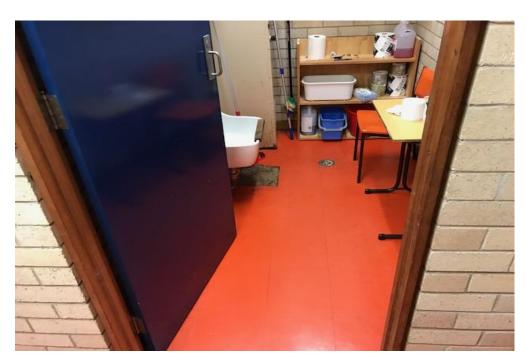


Photograph 1: B00C, R0013 - Resources Store , floor, vinyl tiles, asbestos detected by analysis.

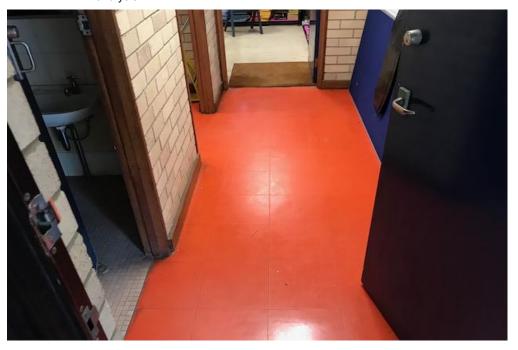


Photograph 2: B00C, R0014 - Staff Toilet, wall, cream paint, negative for lead.

Site Photographs	PROJECT:	86973.02
Hazardous Building Materials (HBM) Assessment	PLATE No:	1
Narrabeen Sports High School (8512)	REV:	А
CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20

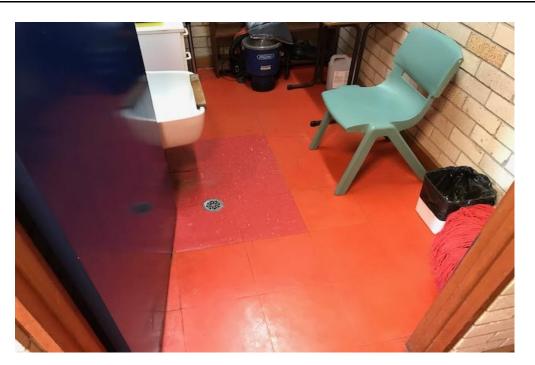


Photograph 3: B00C, R0015 - Cleaning Store, floor, vinyl tiles, asbestos detected by analysis.



Photograph 4: B00C, R0017 - Movement, floor, vinyl tiles, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	2
Geotechnics Environment Groundwater	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 5: B00C, R1017 -Cleaning Store , floor, vinyl tiles, asbestos detected by analysis.



Photograph 6: B00C, exterior, throughout, typical blue paint, negative for lead.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	3
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 7: B00C, first floor, ceiling cavity, insulation , SMF identified visually.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	4
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20

Appendix E

B00D Register and Plates



						Asbestos Risk Assessment									
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00D	throughout	air handling ductwork	mastic to duct	234842-S9	asbestos detected by analysis	0	2	1	2	2	2	9	Low	1	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00D	R0011 - Main area	air handling ductwork	cream paint	spot test L9	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	Any areas of damaged/flaking lead paint and any associated debris should be removed by a suitably qualified and experienced contractor. Consider sealing or enclosing any remaining lead paint per AS4361. Reinspect condition on a regular basis. Avoid disturbance. Implement appropriate controls to prevent exposure and environmental contamination during building work.
B00D	R0011 - Main area	handrails	typical blue paint	spot test L10	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	No hazardous material identified.
B00D	internal, throughout	walls	typical white paint	spot test L11	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	No hazardous material identified.
B00D	internal, throughout	windows	mastic	234842-S10	asbestos detected by analysis	0	2	1	2	2	1	8	Low	5	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00D	internal, level 1	ceiling cavity	insulation	N/A	SMF identified visually	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00D	R0002 - Plant	pipework	gasket	234842-S11	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	No asbestos containing material identified.
B00D	R0002 - Plant	pipework	typical blue paint	spot test L12	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	Any areas of damaged/flaking lead paint and any associated debris should be removed by a suitably qualified and experienced contractor. Consider sealing or enclosing any remaining lead paint per AS4361. Reinspect condition on a regular basis. Avoid disturbance. Implement appropriate controls to prevent exposure and environmental contamination during building work.



_						Asbestos Risk Assessment									
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
BOOD	ceiling voids	throughout	settled dust	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.
B00D	building in general	building cavities (e.g. walls, ceilings)	insulation materials (if present) in general	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.
B00D	building in general	fluorescent light fittings	capacitors, insulating oil	N/A	generally nil PCB assumed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inspect capacitors in detail when safe access available such that PCB containing capacitors can be removed prior to any disturbance of light fittings. Removal and disposal to be in accordance with relevant regulatory requirements such as the ANZECC PCB Management Plan, April 2003 and NSW EPA PCB Chemical Control Order 1997.
B00D	air handling duct work	heater bank(s)	fibrous insulation	N/A	asbestos (assumed)	3	1	3	1	1	3	12	Moderate	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.
B00D	air handling duct work	heater bank(s)	fibrous insulation (if present)	N/A	asbestos (assumed)	3	1	3	1	1	3	12	Moderate	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.



Photograph 1: B00D, throughout, air handling ductwork , mastic to duct, asbestos detected by analysis.

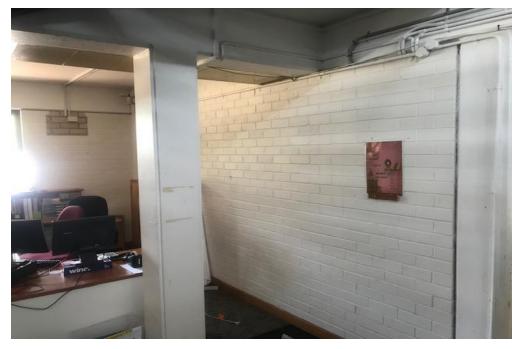


Photograph 2: B00D, R0011 - Main area, air handling ductwork , cream paint , positive for lead.

Site Photographs	PROJECT:	86973.02
Hazardous Building Materials (HBM) Assessment	PLATE No:	1
Narrabeen Sports High School (8512)	REV:	А
CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 3: B00D, R0011 - Main area, handrails , typical blue paint , negative for lead.



Photograph 4: B00D, internal, throughout, walls, typical white paint, negative for lead.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	2
Geotechnics Environment Groundwater	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 5: B00D, internal, throughout, windows, mastic, asbestos detected by analysis.



Photograph 6: B00D, internal, level 1 , ceiling cavity, insulation, SMF identified visually.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	3
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 7: B00D, R0002 - Plant, pipework, gasket, no asbestos detected by analysis.



Photograph 8: B00D, R0002 - Plant, pipework, typical blue paint, positive for lead.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	4
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20

Appendix F

B00E Register and Plates



	rts High School (8512)		1	1				As	bestos F	Risk Ass	essmen	t	r		
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R0001 - General Assistants	ceiling	vermiculite	Composite sample 8512 / B00E / R0001 / Ceiling Structures / Linings / SC30	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0002 - General Storeroom / Entrance	ceiling	vermiculite assumed (above plasterboard)	N/A	refer Summary Recommendation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	The DoE asbestos register provides multiple entries and potentially conflicting information for this material. Proceed with caution as material may contain asbestos. Confirmatory composite sampling and analysis of the material, for asbestos, should be conducted prior to any disturbance. If such sampling and analysis has already been completed then the results should be obtained from the DoE.
B00E	R0003 - Public Reception	ceiling	vermiculite	Composite sample 8512 / B00E / R0003 / Ceiling Structures / Linings / SC32	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0004 - Administration	ceiling	vermiculite	Composite sample 8512 / B00E / R0004 / Ceiling Structures / Linings / SC33	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
BOOE	R0005 - Administration	ceiling	vermiculite	Composite sample 8512 / B00E / R0005 / Ceiling Structures / Linings / SC34	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0006 - Interview/Office	ceiling	vermiculite	N/A	refer Summary Recommendation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Caution is advised as multiple, incomplete entries with inconsistent information are provided for this material in the DoE asbestos register. Proceed with caution. Confirmatory composite sampling and analysis of the material, for asbestos, should be conducted prior to any disturbance. If such sampling and analysis has already been completed then the results should be obtained from the DoE.
B00E	R0006 - Interview/Office	windows	sealant/mastic	not provided in DoE 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 hazardous material identified.
B00E	R0007 - Interview Office	ceiling	vermiculite	Composite sample 8512 / B00E / R0007 / Ceiling Structures / Linings / SC37	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.



								As	bestos F	Risk Ass	essment				
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R0008 - Interview Office	ceiling	vermiculite	Composite sample 8512 / B00E / R0008 / Ceiling Structures / Linings / SC38	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0009 - Staff Toilet	ceiling	vermiculite	Composite sample 8512 / B00E / R0009 / Ceiling Structures / Linings / SC39	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0009 - Male Staff Toilet	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	2	1	3	2	1	9	Low	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.
B00E	R0010 - Clinic	ceiling	vermiculite	Composite sample 8512 / B00E / R0010 / Ceiling Structures / Linings / SC40	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0011 - Unisex Toilets	ceiling	vermiculite	Composite sample 8512 / B00E / R0011 / Ceiling Structures / Linings / SC41	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0012 - Deputy Principal's Office	ceiling	vermiculite	Composite sample 8512 / B00E / R0012 / Ceiling Structures / Linings / SC42	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0013 - General Storeroom	ceiling	vermiculite	Composite sample 8512 / B00E / R0013 / Ceiling Structures / Linings / SC43	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0013 - General Storeroom	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.



								As	bestos F	Risk Ass	essment				
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R0014 - Storeroom	ceiling	vermiculite	Similar to 8512 / BODE / R0027 / Ceiling Structures / Linings / S13	refer Summary Recommendation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	The DoE asbestos register provides multiple entries and potentially conflicting information for this material. Notwithstanding this, the material was not identified during this assessment by DP.
B00E	R0014 - Storeroom	floor	vinyl tiles	not provided in DoE register	asbestos (assumed)	0	2	1	3	2	1	9	Low	N/A	Conflicting accounts are provided in the DoE asbestos register for this material. Asbestos assumed present as a precaution. Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00E	R0014 - Storeroom	ceiling	cream paint	spot test L17	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	refer 1	No hazardous material identified.
B00E	R0016 - Cleaning Store	ceiling	vermiculite	Composite sample 8512 / B00E / R0016 / Ceiling Structures / Linings / SC44	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0016 - Cleaning Store	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.
B00E	R0017 - Cleaning Store	ceiling	vermiculite	Composite sample 8512 / B00E / R0017 / Ceiling Structures / Linings / SC45	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0017 - Cleaning Store	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.
B00E	R0020 - Office/Store	ceiling	vermiculite	Composite sample 8512 / B00E / R0020 / Ceiling Structures / Linings / SC46	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.



								As	bestos F	Risk Ass	essment	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R0021 - Printing / Photocopying	ceiling	vermiculite	Composite sample 8512 / B00E / R0021 / Ceiling Structures / Linings / SC47	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0021 - Printing/ Photocopying	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material not identified during this inspection and therefore assumed removed. Obtain clearance certificate from DoE for confirmatory purposes.
B00E	R0022 - Principal Office	ceiling	vermiculite	Composite sample 8512 / B00E / R0022 / Ceiling Structures / Linings / SC48	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0023 - Staff Toilet	ceiling	vermiculite	Composite sample 8512 / B00E / R0023 / Ceiling Structures / Linings / SC49	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0023 - Staff Toilet	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material not identified during this inspection and therefore assumed removed. Obtain clearance certificate from DoE for confirmatory purposes.
B00E	R0024 - General Storeroom	ceiling	vermiculite	Composite sample 8512 / B00E / R0024 / Ceiling Structures / Linings / SC50	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0024 - General Storeroom	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material not identified during this inspection and therefore assumed removed. Obtain clearance certificate from DoE for confirmatory purposes.
B00E	R0027 - Movement	ceiling	vermiculite	Composite sample 8512 / B00E / R0027 / Ceiling Structures / Linings / SC51	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0029 - Administration	ceiling	vermiculite	Composite sample 8512 / B00E / R0029 / Ceiling Structures / Linings / SC52	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.



								As	bestos F	Risk Ass	essment				
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R0030 - Leading Teacher	ceiling	vermiculite	Composite sample 8512 / B00E / R0030 / Ceiling Structures / Linings / SC53	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0031 - Stairs	ceiling	vermiculite	Composite sample 8512 / B00E / R0031 / Ceiling Structures / Linings / SC54	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R0034 - Common room	ceiling	vermiculite	Composite sample 8512 / B00E / R0034 / Ceiling Structures / Linings / SC87	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1001 - Staff Toilet	ceiling	vermiculite	Composite sample 8512 / B00E / R1001 / Ceiling Structures / Linings / SC56	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1007 - Resources Store	ceiling	vermiculite	Composite sample 8512 / B00E / R1007 / Ceiling Structures / Linings / SC57	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1008 - General Learning Space	ceiling	vermiculite	Composite sample 8512 / B00E / R1008 / Ceiling Structures / Linings / SC58	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1009 - Resources Store	ceiling	vermiculite	Composite sample 8512 / B00E / R1009 / Ceiling Structures / Linings / SC59	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1009 - Resources Store	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.
B00E	R1010 - General Learning Space	ceiling	vermiculite	Composite sample 8512 / B00E / R1010 / Ceiling Structures / Linings / SC60	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.



								As	bestos F	Risk Ass	essment	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R1011 - General Learning Space	ceiling	vermiculite	Composite sample 8512 / B00E / R1011 / Ceiling Structures / Linings / SC61	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1012 - Staff Female Toilet	incinerator on wall	internal insulation and/or other components	N/A	asbestos (assumed)	3	1	1	0	2	1	8	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.
B00E	R1012 - Staff Female Toilet	ceiling	vermiculite	234842-S14 and composite sample 8512 / B00E / R1012 / Ceiling structures / Linings / SC201	refer Summary Recommendation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3	Asbestos was not detected in sample 234842-S14 however the DoE asbestos register indicates that asbestos may have previously been detected during analysis of composite sample(s). Obtain a copy of the laboratory analysis report for the relevant sample(s) from DoE if possible. Proceed with caution as material may contain asbestos.
B00E	R1015 - General Storeroom	ceiling	vermiculite	Composite sample 8512 / B00E / R1015 / Ceiling Structures / Linings / SC62	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1016 - Resources Store	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.
B00E	R1017 - General Learning Space	ceiling	vermiculite	Composite sample 8512 / B00E / R1017 / Ceiling Structures / Linings / SC63	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1018 - Resources Store	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.



								As	oestos F	Risk Ass	essment	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R1018 - Resources Store	windows	mastic	not provided in DoE 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 hazardous material identified.
B00E	R1019 - Boys Toilet	ceiling	vermiculite	Composite sample 8512 / B00E / R1019 / Ceiling structures / Linings / SC201	refer Summary Recommendation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Room not accessible during this assessment. The DoE asbestos register indicates that asbestos may have previously been detected during analysis of composite sample(s). Obtain a copy of the laboratory analysis report for the relevant sample(s) from DoE if possible. Proceed with caution, including further sampling and analysis of the material if required, as material may contain asbestos.
B00E	R1019 - Boys Toilet	floor	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	2	1	3	2	1	9	Low	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.
B00E	R1020 - Girls Toilet	ceiling	vermiculite	Composite sample 8512 / B00E / R1020 / Ceiling Structures / Linings / SC201	refer Summary Recommendation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	The DoE asbestos register indicates that asbestos may have previously been detected during analysis of composite sample(s). Obtain a copy of the laboratory analysis report for the relevant sample(s) from DoE if possible. Proceed with caution, including further sampling and analysis of the material if required, as material may contain asbestos.
B00E	R1021 - Cleaning Store	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.
B00E	R1022 - Movement	ceiling	vermiculite	Composite sample 8512 / B00E / R1022 / Ceiling Structures / Linings / SC64	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.



								As	bestos F	lisk Ass	essment	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R1023 - Stairs	ceiling	vermiculite	Composite sample 8512 / B00E / R1023 / Ceiling Structures / Linings / SC65	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1024 - Seminar/Study	ceiling	vermiculite	Composite sample 8512 / B00E / R1024 / Ceiling Structures / Linings / SC66	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1025 - Seminar/Study	ceiling	vermiculite	Composite sample 8512 / B00E / R1025 / Ceiling Structures / Linings / SC67	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R1026 - Stairs	ceiling	vermiculite	Composite sample 8512 / B00E / R1026 / Ceiling Structures / Linings / SC68	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2001 - Staff	ceiling	vermiculite	Composite sample 8512 / B00E / R2001 / Ceiling Structures / Linings / SC69	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2002 - General Learning Space	ceiling	vermiculite	Composite sample 8512 / B00E / R2002 / Ceiling Structures / Linings / SC70	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.



								As	bestos F	lisk Ass	essment	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R2003 - Resources Store	ceiling	vermiculite	Composite sample 8512 / B00E / R2003 / Ceiling Structures / Linings / SC71	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2003 - Resources Store	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.
B00E	R2005 - Senior Study	ceiling	vermiculite	Composite sample 8512 / B00E / R2005 / Ceiling Structures / Linings / SC72	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2006 - General Storeroom	ceiling	vermiculite	Composite sample 8512 / B00E / R2006 / Ceiling Structures / Linings / SC73	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2006 - General Storeroom	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.
B00E	R2007 - General Learning Space	ceiling	vermiculite	Composite sample 8512 / B00E / R2007 / Ceiling Structures / Linings / SC74	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.



								As	bestos F	Risk Ass	essment				
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R2008 - General Storeroom	ceiling	vermiculite	Composite sample 8512 / B00E / R2008 / Ceiling Structures / Linings / SC75	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2008 - General Storeroom	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.
B00E	R2009 - Computer Learning Space	ceiling	vermiculite	Composite sample 8512 / B00E / R2009 / Ceiling Structures / Linings / SC76	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2010 - Staff female toilet	incinerator on wall	internal insulation and/or other components	not provided in DoE register	asbestos (assumed)	3	1	1	0	2	1	8	Low	4	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.
B00E	R2010 - Staff female toilet	window infill panel	fibre cement sheeting	not provided in DoE register	asbestos (assumed)	1	1	2	2	2	1	9	Low	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.
B00E	R2011 - Cleaning Store	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.
B00E	R2012 - Office store	floor	vinyl tiles	234842-S15	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	No hazardous material identified.
B00E	R2012 - Office/Store	ceiling	vermiculite	Composite sample 8512 / B00E / R2012 / Ceiling Structures / Linings / SC77	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.



						Asbestos Risk Assessment									
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R2013 - General Learning Space	ceiling	vermiculite	Composite sample 8512 / B00E / R2013 / Ceiling Structures / Linings / SC78	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2014 - General Learning Space	ceiling	vermiculite	Composite sample 8512 / B00E / R2014 / Ceiling Structures / Linings / SC79	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2015 - Senior Study	ceiling	vermiculite	Composite sample 8512 / B00E / R2015 / Ceiling Structures / Linings / SC80	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2016 - Resources Store	ceiling	vermiculite	Composite sample 8512 / B00E / R2016 / Ceiling Structures / Linings / SC81	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2016 - Resources Store	floor	vinyl tiles	not provided in DoE 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 hazardous material identified.
B00E	R2017 - General Learning Space	ceiling	vermiculite	Composite sample 8512 / B00E / R2017 / Ceiling Structures / Linings / SC82	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2018 - General Storeroom	ceiling	vermiculite	Composite sample 8512 / B00E / R2018 / Ceiling Structures / Linings / SC83	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2019 - Plant	ceiling	vermiculite	Composite sample 8512 / B00E / R2019 / Ceiling Structures / Linings / SC201	refer Summary Recommendation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	The DoE asbestos register indicates that asbestos may have previously been detected during analysis of composite sample(s). Obtain a copy of the laboratory analysis report for the relevant sample(s) from DoE if possible. Proceed with caution, including further sampling and analysis of the material if required, as material may contain asbestos.



								As	bestos F	Risk Ass	essment	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	R2019 - Plant Room	air handling duct work	white paint	spot test L19	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7	Any areas of damaged/flaking lead paint and any associated debris should be removed by a suitably qualified and experienced contractor. Consider sealing or enclosing any remaining lead paint per AS4361. Reinspect condition on a regular basis. Avoid disturbance. Implement appropriate controls to prevent exposure and environmental contamination during building work.
B00E	R2019 - Plant Room	air handling duct work	mastic to duct	234842-S16	asbestos detected by analysis	0	2	1	3	2	1	9	Low	8	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00E	R2019 - Plant Room	electrical backing board	resinous board	not provided in DoE register	asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Material not identified during this inspection and therefore assumed removed. Obtain clearance certificate from DoE for confirmatory purposes.
B00E	R2020 - Movement	ceiling	vermiculite	Composite sample 8512 / B00E / R2020 / Ceiling Structures / Linings / SC84	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2021 - Stairs	ceiling	vermiculite	Composite sample 8512 / B00E / R2021 / Ceiling Structures / Linings / SC85	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	R2022 - Stairs	ceiling	vermiculite	Composite sample 8512 / B00E / R2022 / Ceiling Structures / Linings / SC86	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00E	internal, throughout	concrete walls	typical grey paint	spot test L18	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6	No hazardous material identified.
B00E	building in general	building cavities (e.g. walls, ceilings)	insulation materials (if present) in general	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.



						Asbestos Risk Assessment									
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation
B00E	building in general	fluorescent light fittings	capacitors, insulating oil	N/A	generally nil PCB assumed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Inspect capacitors in detail when safe access available such that PCB containing capacitors can be removed prior to any disturbance of light fittings. Removal and disposal to be in accordance with relevant regulatory requirements such as the ANZECC PCB Management Plan, April 2003 and NSW EPA PCB Chemical Control Order 1997.
B00E	building in general	air conditioning plant	refrigerants	N/A	present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ensure air conditioning units are decommissioned and refrigerant is reclaimed by an appropriately licensed technician prior to general demolition. Refrigerants should not be discharged or vented to the environment.
B00E	ceiling cavity	cavity 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.
B00E	building in general	air handling duct work	mastic to duct	refer 234842- S16	asbestos (assumed)	0	2	1	3	2	1	9	Low	refer 8	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00E	building in general	air handling duct work, heater bank(s)	fibrous insulation (if present)	N/A	asbestos (assumed)	3	1	3	1	1	3	12	Moderate	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.

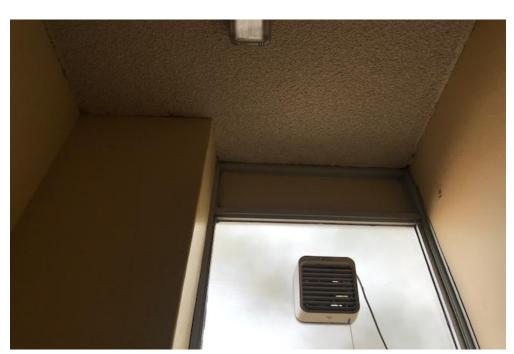


Photograph 1: B00E, R0014 - Storeroom, ceiling , vermiculite, appears removed.



Photograph 2: B00E, R1012 - Staff Female Toilet, incinerator on wall, internal insulation and/or other components, asbestos (assumed).

Site Photographs	PROJECT:	86973.02
Hazardous Building Materials (HBM) Assessment	PLATE No:	1
Narrabeen Sports High School (8512)	REV:	А
CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 3: B00E, R1012 - Staff Female Toilet, ceiling , vermiculite , refer Summary Recommendation.



Photograph 4: B00E, R2010 - Staff female toilet , incinerator on wall, internal insulation and/or other components, asbestos (assumed).

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	2
Geotechnics Environment Groundwater	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 5: B00E, R2012 - Office store , floor, vinyl tiles, no asbestos detected by analysis.



Photograph 6: B00E, internal, throughout, concrete walls, typical grey paint, negative for lead.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	3
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 7: B00E, R2019 - Plant Room, air handling duct work, white paint, positive for lead.



Photograph 8: B00E, R2019 - Plant Room, air handling duct work, mastic to duct, asbestos detected by analysis.

Site Photographs	PROJECT:	86973.02
Hazardous Building Materials (HBM) Assessment	PLATE No:	4
Narrabeen Sports High School (8512)	REV:	А
CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20

Appendix G

B00F Register and Plates



						Asbestos Risk Assessment									
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00F	R0001 - Toilet (Boys)	partition walls (cubicles)	compressed fibre cement sheet	not provided in DoE 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 hazardous material identified.
B00F	R0003 - Art Learning Space	flooring	vinyl and underlay	234842-S4	no asbestos detected by analysis SMF detected	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	No asbestos containing material identified.
B00F	R0010 - Art Learning Space	flooring	vinyl and underlay	similar to 234842-S4	non asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	No hazardous material identified.
B00F	R0006 - Lift	lift plant and lift shaft	internal components	N/A	asbestos (assumed)	1	2	2	0	1	2	8	Low	3	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.
B00F	R0011 - Kiln Space	kiln	insulation block	not provided in DoE 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 hazardous material identified.
B00F	R1001 - Art Learning Space	flooring	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	4	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00F	R1001 - Art Learning Space	flooring	glue under vinyl tiles	similar 234842 S1	non-asbestos (assumed)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	No hazardous material identified.
B00F	R1004 - Distribution Board Cupboard	ceiling structure / lining	fibre cement sheet	not provided in DoE register	asbestos detected by analysis	1	1	1	1	1	2	7	Low	6	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00F	R1005 - Art Learning Space	flooring	vinyl tiles	not provided in DoE register	asbestos detected by analysis	0	1	1	3	2	1	8	Low	7	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).



						Asbestos Risk Assessment									
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00F	R1005 - Art Learning Space	flooring	glue under vinyl tiles	234842-S1	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	No hazardous material identified.
B00F	R1005 - Art Learning Space	steel beams	undercoat beneath green paint	spot test L1	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9	Any areas of damaged/flaking lead paint and any associated debris should be removed by a suitably qualified and experienced contractor. Consider sealing or enclosing any remaining lead paint per AS4361. Reinspect condition on a regular basis. Avoid disturbance. Implement appropriate controls to prevent exposure and environmental contamination during building work.
B00F	R1007 - General Storeroom	wall linings	fibre cement sheet	not provided in DoE register	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 - Hazardous material(s) assumed present as a precaution. Confirm status of hazardous material(s) when safe access available and prior to any disturbance.
B00F	R1009 - Plant	ceiling structure / lining	fibre cement sheet	234842-S2	asbestos detected by analysis	1	1	1	2	1	2	8	Low	10	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00F	R1009 - Plant	electrical backing board	backing board	234842-S3	asbestos detected by analysis	1	1	1	2	1	2	8	Low	11	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00F	all rooms on first floor	celling cavity	insulation	N/A	SMF identified visually	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00F	exterior	brickwork, throughout	undercoat to grey paint	spot test L2	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	Any areas of damaged/flaking lead paint and any associated debris should be removed by a suitably qualified and experienced contractor. Consider sealing or enclosing any remaining lead paint per AS4361. Reinspect condition on a regular basis. Avoid disturbance. Implement appropriate controls to prevent exposure and environmental contamination during building work.
B00F	exterior	throughout	blue paint	spot test L4	negative for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13	No hazardous material identified.



						Asbestos Risk Assessment									
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00F	ceiling voids	throughout	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.
B00F	R0003 - Art Learning Space	ceiling structure / lining	vermiculite	8512 / B00F / R0003 / Ceiling Structures / Linings / SC25	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00F	R0005 - Resources Store	ceiling structure / lining	vermiculite	8512 / B00F / R0005 / Ceiling Structures / Linings / SC26	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00F	R0007 - Resources Store	ceiling structure / lining	vermiculite	8512 / B00F / R0007 / Ceiling Structures / Linings / SC27	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00F	R0008 - Staff Study	ceiling structure / lining	vermiculite	8512 / B00F / R0008 / Ceiling Structures / Linings / SC28	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00F	R0010 - Art Learning Space	ceiling structure / lining	vermiculite	8512 / B00F / R0010 / Ceiling Structures / Linings / SC29	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00F	building in general	building cavities (e.g. walls, ceilings)	insulation materials (if present) in general	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.



								As	bestos F	Risk Ass	essmen	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00F	building in general	fluorescent light fittings	capacitors, insulating oil	N/A	generally nil PCB assumed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Inspect capacitors in detail when safe access available such that PCB containing capacitors can be removed prior to any disturbance of light fittings. Removal and disposal to be in accordance with relevant regulatory requirements such as the ANZECC PCB Management Plan, April 2003 and NSW EPA PCB Chemical Control Order 1997.
B00F	building in general	air conditioning plant	refrigerants	N/A	present	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Ensure air conditioning units are decommissioned and refrigerant is reclaimed by an appropriately licensed technician prior to general demolition. Refrigerants should not be discharged or vented to the environment.



Photograph 1: B00F, R0003 - Art Learning Space, flooring, vinyl and underlay , no asbestos detected by analysis.



Photograph 2: B00F, R0010 - Art Learning Space , flooring, vinyl and underlay , non asbestos (assumed).

Site Photographs	PROJECT:	86973.02
Hazardous Building Materials (HBM) Assessment	PLATE No:	1
Narrabeen Sports High School (8512)	REV:	А
CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 3: B00F, R0006 - Lift , lift plant and lift shaft, internal components, asbestos (assumed).



Photograph 4: B00F, R1001 - Art Learning Space , flooring, vinyl tiles, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	2
Geotechnics Environment Groundwater	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 5: B00F, R1001 - Art Learning Space , flooring, glue under vinyl tiles, nonasbestos (assumed).



Photograph 6: B00F, R1004 - Distribution Board Cupboard, ceiling structure / lining, fibre cement sheet, asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	3
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 7: B00F, R1005 - Art Learning Space, flooring, vinyl tiles, asbestos detected by analysis.



Photograph 8: B00F, R1005 - Art Learning Space , flooring, glue under vinyl tiles, no asbestos detected by analysis.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	4
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20





Photograph 11: B00F, R1009 - Plant, electrical backing board, backing board, asbestos detected by analysis.



Photograph 12: B00F, exterior, brickwork, throughout, undercoat to grey paint, positive for lead.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	6
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 13: B00F, exterior, throughout, blue paint, negative for lead.

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	7
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20

Appendix H

B00G Register and Plates



								As	bestos F	Risk Ass	essmen	t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00G	exterior	walls	cream paint	spot test L20	positive for lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	Any areas of damaged/flaking lead paint and any associated debris should be removed by a suitably qualified and experienced contractor. Consider sealing or enclosing any remaining lead paint per AS4361. Reinspect condition on a regular basis. Avoid disturbance. Implement appropriate controls to prevent exposure and environmental contamination during building work.
B00G	exterior	south eastern corner of building, on floor	fibre cement debris	234842-S20	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2	No hazardous material identified.
B00G	exterior	subfloor, throughout	loose fibre in sand/soil	234842-S21 and S23	asbestos detected by analysis	3	3	3	2	2	2	15	High	3, 6, 7	RESTRICT ACCESS IMMEDIATELY. Persons entering the area should undertake a risk assessment and implement suitable controls to prevent exposure. Conduct air monitoring to confirm airborne asbetsos fibre cocentrations in/around the subfloor and occupied building areas. Consider removing the material as soon as reasonably practicable. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00G	exterior	subfloor, throughout	fibre cement fragments	234842-S22	asbestos detected by analysis	1	3	3	2	2	2	13	Moderate	N/A	Ceiling/floor cavity - 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).
B00G	exterior	north, south, east and west eave linings	flat fibre cement sheet	not provided in DoE register	asbestos detected by analysis	1	1	1	1	2	0	6	Low	4	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00G	R0026 - Girls toilet	cubicle partitions	compressed fibre cement sheet	234842-S17	asbestos detected by analysis	1	0	1	3	2	2	9	Low	5	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00G	R0026 - Girls toilet	ceiling	fibre cement sheet	234842-S18	asbestos detected by analysis	1	0	1	2	2	2	8	Low	N/A	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).



	ts High School (6512)						Asbestos Risk Assessment								
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00G	R0028 - Male toilet	cubicle partition	compressed fibre cement sheet	similar to 234842-S17	asbestos (assumed)	1	0	1	3	2	2	9	Low	N/A	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00G	R0028 - Male toilet	ceiling	fibre cement sheet	similar to 234842-S18	asbestos (assumed)	1	0	1	2	2	2	8	Low	N/A	Reinspect hazardous material - Reinspect condition on a regular basis. Remove material prior to any significant disturbance (e.g. renovation, demolition or maintenance work).
B00G	R002 - Kitchen	underside of sink	bituminous insulation	234842-S19	no asbestos detected by analysis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No hazardous material identified.
B00G	Ceiling Voids	throughout	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.
B00G	R0004 - External Movement	ceiling linings	fibre cement sheeting	not provided in DoE 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 hazardous material identified.
B00G	R0013 - Performance Store	window sealant	mastic	not provided in DoE 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 hazardous material identified.
B00G	R0013 - Performance Store	wall linings	fibre cement sheet	not provided in DoE 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 hazardous material identified.
B00G	R0015 - External Moevement	ceiling linings	fibre cement sheeting	not provided in DoE 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 hazardous material identified.



							Asbestos Risk Assessment					t			
Building	Location (General)	Location (Specific)	Material	Sample No.	Material Status	Friability	Condition	Treatment	Accessibility	Activity	Ventilation	Risk Score	Action Priority	Photo No.	Summary Recommendation (Management Survey)
B00G	R0021 - External Movement	ceiling linings	fibre cement sheeting	not provided in DoE 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 hazardous material identified.
B00G	building in general	building cavities (e.g. walls, ceilings)	insulation materials (if present) in general	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.



Photograph 1: B00G, exterior, walls, cream paint, positive for lead



Photograph 2: B00G, exterior, south eastern corner of building, on floor , fibre cement debris, no asbestos detected by analysis

	Site Photographs	PROJECT:	86973.02
	Hazardous Building Materials (HBM) Assessment	PLATE No:	1
Geotechnics / Environment / Groundwater	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 3: B00G, exterior, subfloor, throughout, loose fibre in sand/soil, asbestos detected by analysis



Photograph 4: B00G, exterior, north, south, east and west eave linings, flat fibre cement sheet, asbestos detected by analysis

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	2
Geotechnics Environment Groundwater	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 5: B00G, R0026 - Girls toilet, cubicle partitions, compressed fibre cement sheet, asbestos detected by analysis



Photograph 6: B00G, exterior, subfloor, throughout, loose fibre in sand/soil, asbestos detected by analysis

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	3
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20



Photograph 7: B00G, exterior, subfloor, throughout, loose fibre in sand/soil, asbestos detected by analysis

	Site Photographs	PROJECT:	86973.02
Douglas Partners	Hazardous Building Materials (HBM) Assessment	PLATE No:	4
	Narrabeen Sports High School (8512)	REV:	А
	CLIENT: SINSW c/- Johnstaff Projects	DATE:	Jan-20

Appendix I

Laboratory Certificate(s) of Analysis



Envirolab Services Pty Ltd ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

CERTIFICATE OF ANALYSIS 234842

Client Details	
Client	Douglas Partners Pty Ltd
Attention	Tim Kulmar
Address	96 Hermitage Rd, West Ryde, NSW, 2114

Sample Details	
Your Reference	<u>86973.02</u>
Number of Samples	32 Material
Date samples received	20/01/2020
Date completed instructions received	20/01/2020

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.

Please refer to the last page of this report for any comments relating to the results.

Report Details	
Date results requested by	23/01/2020
Date of Issue	23/01/2020
NATA Accreditation Number 29	01. This document shall not be reproduced except in full.
Accredited for compliance with	SO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *

Asbestos Approved By

Analysed by Asbestos Approved Identifier: Lucy Zhu Authorised by Asbestos Approved Signatory: Lucy Zhu **Results Approved By** Lucy Zhu, Asbestos Supervisor Authorised By

Nancy Zhang, Laboratory Manager



Asbestos ID - materials						
Our Reference		234842-1	234842-2	234842-3	234842-4	234842-5
Your Reference	UNITS	S1	S2	S3	S4	S5
Date Sampled		15/01/2020	15/01/2020	15/01/2020	15/01/2020	15/01/2020
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	22/01/2020	22/01/2020	22/01/2020	22/01/2020	22/01/2020
Mass / Dimension of Sample	-	20x20x1mm	31x15x2mm	18x7x1mm	65x26x2mm	43x41x5mm
Sample Description	-	Black sticky mastic	Beige fibrous insulation	Black bituminous material	Blue vinyl tile	Grey fibre cement material
Asbestos ID in materials	-	No asbestos detected Organic fibres detected Synthetic mineral fibres detected	Chrysotile asbestos detected Organic fibres detected	Chrysotile asbestos detected	No asbestos detected Synthetic mineral fibres detected	Chrysotile asbestos detected Amosite asbestos detected
Trace Analysis	-	No asbestos detected	[NT]	[NT]	No asbestos detected	[NT]

Asbestos ID - materials						
Our Reference		234842-6	234842-7	234842-8	234842-9	234842-10
Your Reference	UNITS	S6	S7	S8	S9	S10
Date Sampled		15/01/2020	15/01/2020	15/01/2020	15/01/2020	15/01/2020
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	22/01/2020	22/01/2020	22/01/2020	22/01/2020	22/01/2020
Mass / Dimension of Sample	-	64x26x4mm	80x25x3mm	30x25x4mm	23x8x1mm	30x10x1mm
Sample Description	-	Orange vinyl tile	Orange vinyl tile	Beige fibre cement material	Grey mastic	Black bituminous material
Asbestos ID in materials	-	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected
				Organic fibres detected		Synthetic mineral fibres detected
Trace Analysis	-	[NT]	[NT]	[NT]	[NT]	[NT]
Asbestos ID - materials						
Our Reference		234842-11	234842-12	234842-13	234842-14	234842-15
Your Reference	UNITS	S11	S12	S13	S14	S15
Date Sampled		15/01/2020	15/01/2020	15/01/2020	15/01/2020	15/01/2020
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	22/01/2020	22/01/2020	22/01/2020	22/01/2020	22/01/2020
Mass / Dimension of Sample	-	90x5x3mm	172x15x4mm	39x12x2mm	70x42x4mm	76x31x2mm
Sample Description	-	Black bituminous material	Brown hardened mastic	Cream vinyl tile	Beige mica vermiculite	Beige vinyl tile
Asbestos ID in materials	-	No asbestos detected Synthetic mineral fibres	Chrysotile asbestos detected	No asbestos detected Synthetic mineral fibres	No asbestos detected	No asbestos detected
Trace Analysis	-	detected No asbestos detected	[NT]	detected No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference		234842-16	234842-17	234842-18	234842-19	234842-20
Your Reference	UNITS	S16	S17	S18	S19	S20
Date Sampled		15/01/2020	15/01/2020	15/01/2020	15/01/2020	15/01/2020
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	22/01/2020	22/01/2020	22/01/2020	22/01/2020	22/01/2020
Mass / Dimension of Sample	-	123x8x3mm	98x26x6mm	36x24x5mm	23x15x2mm	66x35x4mm
Sample Description	-	Grey soft mastic	Grey fibre cement material	Beige fibre cement material	Black bituminous material	Beige fibre cement-like material
Asbestos ID in materials	-	Chrysotile asbestos detected Organic fibres	Chrysotile asbestos detected	Chrysotile asbestos detected Amosite	No asbestos detected	No asbestos detected
		detected		asbestos detected		
				Organic fibres detected		
Trace Analysis	-	[NT]	[NT]	[NT]	No asbestos detected	No asbestos detected

Asbestos ID - materials						
Our Reference		234842-21	234842-22	234842-23	234842-24	234842-25
Your Reference	UNITS	S21	S22	S23	S24	S25
Date Sampled		15/01/2020	15/01/2020	15/01/2020	15/01/2020	15/01/2020
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	22/01/2020	22/01/2020	22/01/2020	22/01/2020	22/01/2020
Mass / Dimension of Sample	-	85x61x2mm	105x100x5mm	110x73x4mm	55x41x3mm	55x43x3mm
Sample Description	-	Beige fibrous insulation	Grey fibre cement material	Beige fibrous insulation	Green vinyl tile	A)Beige vinyl tile B)Adhesive
Asbestos ID in materials	-	Amosite asbestos detected Synthetic mineral fibres detected	Chrysotile asbestos detected Amosite asbestos detected	Amosite asbestos detected Synthetic mineral fibres detected	Chrysotile asbestos detected	A)Chrysotile asbestos detected B)No asbestos detected
			Crocidolite asbestos detected			
Trace Analysis	-	[NT]	[NT]	[NT]	[NT]	No asbestos detected
Asbestos ID - materials						
Our Reference		234842-26	234842-27	234842-28	234842-29	234842-30
Your Reference	UNITS	S26	S27	S28	S29	S30
Date Sampled		15/01/2020	15/01/2020	15/01/2020	15/01/2020	15/01/2020
Type of sample		Material	Material	Material	Material	Material
Date analysed	-	22/01/2020	22/01/2020	22/01/2020	22/01/2020	22/01/2020
Mass / Dimension of Sample	-	98x50x3mm	148x38x4mm	58x31x3mm	150x63x4mm	146x67x6mm
Sample Description	-	A)Beige vinyl tile B)Adhesive	Beige vitreous fibrous insulation	Black bituminous membrane	Beige vitreous fibrous insulation	Beige vitreous fibrous insulation
Asbestos ID in materials	-	A)Chrysotile asbestos detected B)No asbestos	No asbestos detected Synthetic mineral fibres	Chrysotile asbestos detected Organic fibres	No asbestos detected Synthetic mineral fibres	No asbestos detected Synthetic mineral fibres
		detected	detected	detected	detected	detected

Asbestos ID - materials			
Our Reference		234842-31	234842-32
Your Reference	UNITS	S31	S32
Date Sampled		15/01/2020	15/01/2020
Type of sample		Material	Material
Date analysed	-	22/01/2020	22/01/2020
Mass / Dimension of Sample	-	113x38x3mm	54x45x3mm
Sample Description	-	Blue vinyl tile	Blue vinyl tile
Asbestos ID in materials	-	Chrysotile asbestos detected	Chrysotile asbestos detected
Trace Analysis	-	[NT]	[NT]

Method ID	Methodology Summary
ASB-001	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.

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

Report Comments

Samples 234842-25 & 26; 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.