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Our ref: 754-NTLEN347071-1

Cessnock Hospital - Pre-Demolition Hazardous Materials Survey Report Summary

1. INTRODUCTION

The following Pre-Demolition Hazardous Materials Reports have been prepared by Tetra Tech Coffey on behalf of Health Infrastructure to assess the potential environmental impacts that could arise from the redevelopment of the Cessnock Hospital health service at 24 View Street, Cessnock.

- 754-NTLEN347071-1 Kitchen HMDR 04072024
- 754-NTLEN347071-1 Maintenance Workshop HMDR 05072024
- 754-NTLEN347071-1 Pink Lady Volunteer and Dangerous Goods HMDR 0472024
- 754-NTLEN347071-1 Cessnock House and Pathology HMDR 01072024
- 754-NTLEN347071-1 Main Building Cessnock Hospital HMDR 10072024
- 754-NTLEN347071-1 Store Room and Mortuary -HMDR 04072024
- 754-NTLEN347071-1 Workshops, Metal Shed and Old Mortuary HMDR 01072024

These reports accompany a Review of Environment Factors that seeks approval for the construction and operation of a new two-storey clinical services building and refurbishment works including:

- · Demolition of select existing structures
- Construction of a new hospital building on the site's northern portion
- Realignment of internal roads and a new primary vehicular and pedestrian entrance to the hospital campus from Jurd Street
- Refurbishment of the existing at-grade car park
- Installation and realignment of selected services
- Installation of ancillary development including, but not limited to, lighting and signage.
- Landscaping
- New kerb, gutter and road resurfacing on Jurd St

For a detailed project description, refer to the Review of Environmental Factors prepared by Ethos Urban.

1.1 SUMMARY OF FINDINGS

| Building | Conta Mate | estos aining erials | Lead Based Paint | Lead Containing Dust | Synthetic Mineral Fibre | Poly- chlorinated Biphenyls | Ozone Depleting Substances | |
|--|-----------------|---------------------------|------------------------|----------------------------|-------------------------------|-----------------------------------|----------------------------------|--|
| | Non- Friable | Friable | | | | | | |
| Kitchen | ✓ | - | - | - | ✓ | - | - | |
| Maintenance Workshop | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | - | |
| Pink Lady Volunteer Services and Dangerous Goods Buildings | √ | √ | √ | - | - | - | - | |
| Cessnock House and Pathology | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | √ | |
| Main Building | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| Storeroom & Mortuary | ✓ | ✓ | ✓ | - | ✓ | - | - | |
| Workshops, Metal Shed and Old Mortuary | ✓ | ✓ | √ | ✓ | √ | ✓ | √ | |

1.2 STATEMENT OF SIGNIFICANCE

Based on the identification of potential issues and an assessment of the nature and extent of the impacts of the proposed development, it is determined that:

- The extent and nature of potential impacts from our findings are high and if not properly mitigated, would have significant adverse effects on the locality, community and the environment.
- Potential impacts can be appropriately mitigated or managed to ensure that there is minimal effect on the locality, community.

1.3 MITIGATION MEASURES

| Project Stage | Mitigation Measures | Relevant Section of Report |
|---------------|---|------------------------------|
| Removal Works | Ensure appropriately licenced and experienced removal contractors and consultants/assessors are used during the works | Recommendations and Register |
| Removal Works | Ensure control air monitoring is conducted during the removal works | Recommendations and Register |
| Removal Works | Ensure clearance inspections are conducted by a licenced assessor following the completion of the removal works to confirm that the works have been conducted to a satisfactory standard. Ensure clearance air monitoring is also conducted following the removal of any friable asbestos materials | Recommendations and Register |
| Removal Works | Ensure all works are completed in accordance with the WHS Regs and relevant codes of practice | Recommendations and Register |

Should you have any questions or require any further information, please feel free to contact the undersigned. Kind regards,

Ben McCann Senior Associate – Property Risk 0436 294 404

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NSW Health Infrastructure c/o Turner & Townsend Asbestos and Hazardous Materials Pre-Demolition Assessment

Kitchen

Cessnock Hospital

Cessnock NSW 2325

23/08/2024



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Asbestos and Hazardous Materials Pre-Demolition Assessment

Prepared for.

NSW Health Infrastructure c/o Turner & Townsend

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Report Date: 23/08/2024

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Quality Information

Revision History

| Revision | Description | Date | Originator | Reviewer | Approver |
|----------|-------------|------------|------------|------------|--------------|
| R01 | Final | 23/08/2024 | Sam Crofts | Ben McCann | Aaron Holmes |

Distribution

| Report Status | No. of copies | Format | Distributed to | Date |
|---------------|---------------|--------|---|------------|
| R01 | 1 | PDF | NSW Health Infrastructure c/o Turner & Townsend | 23/08/2024 |

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Executive Summary

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Kitchen building located at Cessnock Hospital, Cessnock NSW 2325 (the site).

The purpose of the hazmat pre-demolition assessment was to identify and assess the health risk posed by hazmat, including asbestos containing materials (ACM) which may be encountered during future demolition/refurbishment works of the building. This is in order to meet the requirements of the relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes.

State/Territory legislation and industry guidance requires that information in this report is supplied on the understanding that the area surveyed is scheduled for demolition/refurbishment works, and that identified asbestos and other hazmat will be removed prior to, or as part of these works. Asbestos or other hazmat remaining in situ will need to be detailed in the asbestos and hazmat register and site-specific asbestos management plan designed to control the risks of exposure to hazardous materials.

The following hazardous building materials were identified at the time of the assessment:

| Property | Asbestos Containing Materials Non- Friable | | Lead Based Paint | Lead Containing Dust | Synthetic Mineral Fibre | Poly- chlorinated Biphenyls | Ozone Depleting Substances |
|----------------------------------|---|---|------------------------|----------------------------|-------------------------------|-----------------------------------|----------------------------------|
| | Friable | | | | | | |
| Cessnock Hospital, Kitchen | ✓ | - | - | - | ✓ | - | - |

Full details of the material assessments can be located within **Appendix A: Asbestos and Hazardous Materials Register**.

Areas of No Access or Limited Access were present and are described in Section 2.2. It should be presumed that hazmat are present in these areas until further inspection can confirm or refute their presence.

A number of other recommendations were made in the body of this report which address the ongoing management of hazardous building materials at this site.

This executive summary must be read in conjunction with this entire report and the limitations contained therein.

1. Introduction

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Kitchen building located at Cessnock Hospital, Cessnock NSW 2325 (the site). Sam Crofts of Tetra Tech conducted the assessment on the 04/07/2024.

Note: The building was occupied at the time of the assessment. As such, destructive/intrusive sampling methods were not able to be used during the survey. A destructive hazardous materials survey must be carried out when the building has been vacated prior to any demolition or refurbishment works.

1.1. Site Information

The asbestos and hazardous materials pre-demolition assessment was undertaken of the Kitchen located at Cessnock Hospital, Cessnock NSW 2325 (the site).

| Table 1: Site Information | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|
| Site: | Kitchen, Cessnock Hospital, Cessnock NSW 2325 | | | | | | | | |
| Age (Circa): | 1960's | | | | | | | | |
| Site Description: | Commercial kitchen and dining building within hospital | | | | | | | | |

1.2. Objective and Scope of Works

The objectives/scope of the hazmat assessment was to:

- Identify the presence of the following confirmed and or suspected hazmat building materials within accessible areas of nominated building(s):
 - Asbestos Containing Materials (ACM);
 - Lead Based Paint (LBP);
 - Lead Containing Dust (LCD);
 - Synthetic Mineral Fibres (SMF);
 - Polychlorinated Biphenyls in fluorescent light capacitors (PCBs); and
 - Ozone Depleting Substances (ODSs).
- Collect samples of suspected ACM and/or LBP and LCD, for analysis by a NATA accredited laboratory;
- Visually determine the presence of SMF, PCB-containing light fittings and ODSs;
- Recommend risk management strategies to mitigate risks associated with ACM and other hazmat for removal and ongoing occupancy;
- Prepare a detailed assessment report in alignment with the requirements of relevant State/Territory Regulations, Compliance Codes, Codes of Practice and Guidance Notes, and
- Provide a copy of the assessment report in electronic (PDF) format to NSW Health Infrastructure.

2. Findings

The results of the asbestos and hazardous materials pre-demolition assessment are provided in a register format which is designed to provide readily available information about the presence of hazmat prior to demolition or refurbishment.

2.1. Assessment Findings

The findings of this assessment are presented in tabulated format, including building materials that have been photographed are depicted in **Appendix A: Asbestos and Hazardous Materials Register**.

The following significant key findings are noted:

2.1.1. Asbestos Containing Materials

| Location | Material Description | Risk Rating |
|--|--|-------------|
| Internal / GF / Kitchen Floor Covering, Various Throughout | Vinyl Floor Tiles (brown) | Low |
| Internal / GF / Cafeteria Floor Covering, Various Throughout | Vinyl Floor Tiles (brown) | Low |
| Internal / GF / Kitchen and Cafeteria, Throughout | Vinyl Floor Tiles (white with brown specs) | Low |
| Internal / GF / Kitchen / Room 1010 Cleaners Cupboard, Throughout | Vinyl Floor Tiles (white) | Low |
| Internal / GF / Kitchen / Room 1012, Throughout | Vinyl Floor Tiles (white with brown specs) | Low |
| External / GF / Awning, Southeast Verandah | Fibre Cement Sheeting | Low |
| External / GF / All Areas / Eaves, Throughout | Fibre Cement Sheeting | Low |
| External / GF / Infill Panels, Adjacent Air Conditioning Refrigerator Pump | Fibre Cement Sheet | Low |
| External / GF / All Areas / Infill Panels, Below Windows | Fibre Cement Sheet | Low |
| External / GF / All Areas / Metal Windows, Throughout | Window Caulking | Low |
| External / GF / All Areas / Metal Windows, Throughout | Window Caulking | Low |
| Internal / GF / Kitchen / Rooms 1008 & 1007, Throughout | Vinyl Floor Tiles (white with brown specs) | Low |
| Internal / GF / Kitchen / Rooms 1008 & 1007, Various Throughout | Vinyl Floor Tiles (brown) | Low |
| Internal / Basement / Switchboard Room, 0003 / Electrical Distribution Board, Southwest | Internal Components | Low |
| Internal / Basement / Switchboard Room, 0003 / Electrical Distribution Board, Southwest | Compressed Bituminous Panel | Low |
| Internal / Basement / Switchboard Room, 0003 / Plant & Equipment | Gasket Material | Low |

2.1.2. Lead Based Paint

No suspect lead based paint identified at the time of the assessment.

2.1.3. Lead Containing Dust

No suspect lead containing dust identified at the time of the assessment.

2.1.4. Synthetic Mineral Fibres

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| External / GF / Hot Water Heater, Adjacent Roof Access | Insulation Material | Very Low |
| Internal / GF / Kitchen / Hot Water Heater, Adjacent Dishwasher | Insulation Material | Very Low |
| Internal / Basement / Switchboard Room, 0003 / Pipework, Throughout | Insulation Material | Very Low |

2.1.5. Polychlorinated Biphenyls

No suspect PCB containing capacitors identified at the time of the assessment.

2.1.6. Ozone Depleting Substances

No suspect ODS's identified at the time of the assessment.

2.2. Access Restrictions

Where no access or limited access areas have been identified it should be presumed that hazmat are present in these areas until further investigation can confirm or refute their presence.

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

2.2.1. No Access Areas

The following areas were not accessible at the time of the assessment:

- Within live electrics, plant and ductwork throughout.
- Areas outside the scope of assessment.
- External GF Subfloor Visually inspected from access hatch only. No access to majority of subfloor. No access beneath fabric to soil.
- · Ceiling space no access in occupied area.

2.2.2. Limited Access Areas

Access to the following areas was limited at the time of the assessment:

- Ceiling voids;
- Wall voids;
- Below floors;

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- · Behind ceramic wall tiles;
- Beneath floor coverings;
- Subfloor spaces;
- Risers;
- Occupied areas;
- Formwork to concrete slabs; and
- Roof

3. Recommendations

The following recommendations are provided with respect to hazmat identified during the assessment of the site. This assessment only covers the parts of the site that have been accessed and been assessed in accordance with the approved scope.

3.1. Asbestos Containing Materials

The preference will always be to eliminate the asbestos hazards from the site and if it is practicable for the occupier to do so then asbestos removal should always be considered. ACM on site, which were found to be in a bonded and stable condition, may be managed in situ and periodically inspected if removal is not practicable.

If managed in situ, all identified or presumed ACM should be appropriately labelled, where possible, and regularly inspected to assess their condition and potential changes to health risk.

Prior to any demolition, partial demolition, renovation or refurbishment, ACM likely to be disturbed by those works should be removed in accordance with relevant codes of practices, compliance codes and legislation.

3.1.1. Asbestos Control Measures

- If the ACM is friable, in a poor/unstable condition and accessible with risk to health from exposure, immediate access restrictions should be applied, and removal is required as soon as practicable using a licensed contractor.
- If the ACM is friable, accessible but in a stable condition, removal is preferred. However, if removal is not immediately practicable, short-term control measures (i.e. restrict access, sealing, enclosure etc) may be employed until removal can be facilitated.
- If the ACM is non-friable and, in a poor/unstable condition, disturbance should be minimised. Removal or encapsulation may be appropriate controls. ACM which are found in localised areas and identified as damaged, consisting of small qualities of non-friable cement debris may not require the highest removal priority. The removal priority may be lowered due to a low risk of disturbance. Further confirmation can be obtained via asbestos fibre air monitoring where the result is found to be < 0.01 fibre/mL.
- For the instances above and further assessment of the risk, airborne fibre monitoring is recommended and can assist with decisions on the most appropriate, and urgency of, control measures.
- Where ACM is in a good, stable condition, ongoing maintenance and periodic inspection would be appropriate control measures.
- Remaining ACM identified or presumed should be appropriately labelled where possible. Those items should be regularly inspected to ensure they are not deteriorating and resulting in a potential risk to health.
- An asbestos management plan (AMP) should be created and maintained for all ACM that remain at the site to assist the persons conducting a business or undertaking (PCBU) with the

- management of these materials. The AMP must ensure that suitable control measures are implemented to prevent site personnel and others from being exposed to airborne asbestos fibres.
- Schedule periodic reassessment of ACM remaining on-site to monitor their aging/deterioration so that the PCBU can be alerted if any ACM require encapsulation or removal.
- Prior to any demolition or refurbishment works, all asbestos and hazardous materials identified and likely to be disturbed by demolition or refurbishment works should be removed in accordance with the legislative requirements and relevant codes of practice or compliance codes.
- During future demolition works, if any materials that are not referenced in this report and are suspected of containing asbestos are encountered, then works must cease and an asbestos hygienist should be notified to determine whether the material contains asbestos.

The recommendations, conclusions or stability of asbestos materials contained in this report shall not abrogate a person of their responsibility to work in accordance with statutory requirements, codes of practice, guidelines, material safety data sheets, work instructions or reasonable work practices.

3.2. Synthetic Mineral Fibres

• SMF materials that are likely to be disturbed during any proposed demolition/refurbishment works should be handled in accordance with The National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)].

3.3. Training

Information, instruction and training must be provided to workers, contractors and others who may come into contact with hazardous materials in a workplace, either directly or indirectly.

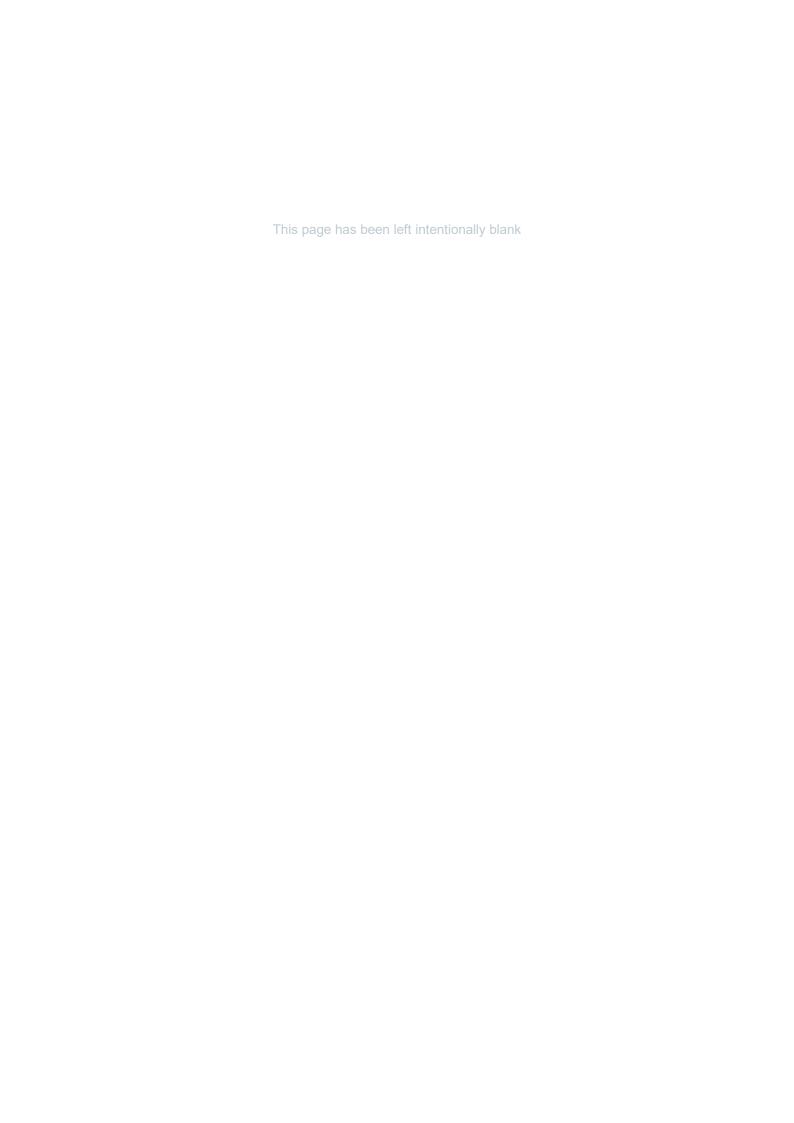
Depending on the circumstances this hazardous materials awareness training may include:

- The purpose of the training;
- The health risks of hazardous materials;
- The types, uses and likely occurrence of hazardous materials on site, in plant and/or equipment in the workplace;
- The trainee's roles and responsibilities for hazmat management;
- Where the asbestos and hazardous materials register is located and how it can be accessed;
- The timetable for removal of hazmat from the workplace;
- The processes and procedures to be followed to prevent exposure, including exposure from any accidental release of hazmat into the workplace;
- Where applicable, the correct use of maintenance and control measures, protective equipment and work methods to minimise the risks from hazmat, limit the exposure of workers and limit the spread of hazmat outside any work area;
- The National Exposure Standard (NES) and control levels for hazmat; and
- The purpose of any air monitoring or health surveillance that may occur.

Should any further suspect asbestos and/or hazmat become evident during future disturbance/ refurbishment works which have not been addressed in this report, Tetra Tech should be contacted immediately so that a WHS consultant can confirm the status of the suspect material/s.

Tetra Tech is able to assist with all aspects of Risk Management for removal of asbestos and other hazardous materials resulting from these findings

Appendix A: Asbestos and Hazardous Materials Register



| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|--------------------------|----------|---------------------------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| External | GF / Awning, Southeast Verandah | Fibre Cement Sheeting | Asbestos | Previously Sampled KT01.1 | Chrysotile Asbestos Detected | Non-Friable | 90 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 1 |
| External | GF / All Areas / Eaves, Throughout | Fibre Cement Sheeting | Asbestos | Previously Sampled KT01 | Chrysotile Asbestos Detected | Non-Friable | 30 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 2 |
| External | GF / Infill Panels, Adjacent Air Conditioning Refrigerator Pump | Fibre Cement Sheet | Asbestos | Previously Sampled KT04.1 | Chrysotile Asbestos Detected | Non-Friable | 6 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 3 |
| External | GF / All Areas / Infill Panels, Below Windows | Fibre Cement Sheet | Asbestos | Previously Sampled KT04 | Chrysotile Asbestos Detected | Non-Friable | 9 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 4 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|----------|---------------|------------------------------------|-------------|----------|-----------|----------------|--|--|---------|
| External | GF / All Areas / Metal Windows, Throughout | Window Caulking | Asbestos | A27966 | Chrysotile Asbestos Detected | Non-Friable | 40 m | Stable | Low | Prior to refurbishment or demolition | Remove windows whole without direct disturbance to caulking under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If scraping out of caulking is undertaken as the removal method (i.e. material is being crumbled, pulverized, rendered to a powder), this should be done under friable asbestos removal conditions by a Class A (friable) licensed asbestos removal contractor. | 5 |
| External | GF / All Areas / Metal Windows, Throughout | Window Caulking | Asbestos | A27965 | Chrysotile Asbestos Detected | Non-Friable | 40 m | Stable | Low | Prior to refurbishment or demolition | Remove windows whole without direct disturbance to caulking under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If scraping out of caulking is undertaken as the removal method (i.e. material is being crumbled, pulverized, rendered to a powder), this should be done under friable asbestos removal conditions by a Class A (friable) licensed asbestos removal contractor. | 6 |
| Internal | GF / Cafeteria Ceiling Lining, Throughout | Vermiculite | Asbestos | A10596 | No Asbestos Detected | - | 60 m² | - | - | - | - | 7 |
| Internal | GF / Kitchen Ceiling Lining, Throughout | Vermiculite | Asbestos | A10597 | No Asbestos Detected | - | 60 m² | - | - | - | - | 8 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--|----------|----------------------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Kitchen / Floor Covering, Various Throughout | Vinyl Floor Tiles (brown) | Asbestos | A10598.1 | Chrysotile Asbestos Detected | Non-Friable | 2 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 9 |
| Internal | GF / Cafeteria / Floor Covering, Various Throughout | Vinyl Floor Tiles (brown) | Asbestos | A10598 | Chrysotile Asbestos Detected | Non-Friable | 8 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 10 |
| Internal | GF / Kitchen and Cafeteria, Floor Covering, Throughout | Vinyl Floor Tiles (white with brown specs) | Asbestos | Previously Sampled KT03 | Chrysotile Asbestos Detected | Non-Friable | 60 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 11 |
| Internal | GF / Kitchen / Room 1010 Cleaners Cupboard, Throughout | Vinyl Floor Tiles (white) | Asbestos | A10599 | Chrysotile Asbestos Detected | Non-Friable | 6 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 12 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|--|----------|--|------------------------------------|-------------|----------|-----------|----------------|--|--|---------|
| Internal | GF / Kitchen / Room 1012, Throughout | Vinyl Floor Tiles (white with brown specs) | Asbestos | Previously Sampled KT03.1 | Chrysotile Asbestos Detected | Non-Friable | 10 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 13 |
| Internal | GF / Kitchen / Rooms 1008 & 1007, Throughout | Vinyl Floor Tiles (white with brown specs) | Asbestos | Previously Sampled KT03.2 | Chrysotile Asbestos Detected | Non-Friable | 15 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 14 |
| Internal | GF / Kitchen / Rooms 1008 & 1007, Various Throughout | Vinyl Floor Tiles (brown) | Asbestos | A10598.2 | Chrysotile Asbestos Detected | Non-Friable | 3 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 15 |
| Internal | Basement / Switchboard Room, 0003 / Electrical Distribution Board, Southwest | Internal Components | Asbestos | 754- NTLEN347071- 1kitchen 493A2 | Suspected Asbestos | Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Confirm status and remove under controlled friable asbestos removal conditions by a Class A (friable) licensed asbestos removal contractor. Prior to any intrusion or removal, sampling is to be conducted by a suitably trained hygienist/LAA (if state requirement) and test at a NATA accredited facility for verification of internal core system. | 16 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|--------------------------------|------------|--|------------------------------------|-------------|----------|-----------|----------------|--|--|---------|
| Internal | Basement / Switchboard Room, 0003 / Electrical Distribution Board, Southwest | Compressed Bituminous Panel | Asbestos | 754- NTLEN347071- 1kitchen 493A1 | Suspected Asbestos | Non-Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Not sampled - Live electrical hazard. Remove under controlled non- friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 17 |
| Internal | Basement / Switchboard Room, 0003 / Plant & Equipment | Gasket Material | Asbestos | A10594 | Chrysotile Asbestos Detected | Non-Friable | 6 Units | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 18 |
| Internal | Basement / Switchboard Room, 0003 / Plant & Equipment Pipework, Central | Bituminous Wrap | Asbestos | A10593 | No Asbestos Detected | Friable | 4 m | - | - | - | - | 19 |
| Internal | GF / Kitchen / Door Frames, Throughout | Green (Light) Paint | Lead Paint | L18418 | Lead Detected (0.099% w/w) | - | 20 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 20 |
| Internal | GF / Kitchen / Wall lining, Throughout | Blue (Light) Paint | Lead Paint | L18419 | Lead Detected (0.02% w/w) | - | 180 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 21 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|------------|--|---------------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | Basement / Switchboard Room, 0003 / Doors, Throughout | Brown (Light) Paint | Lead Paint | L18417 | Lead Detected (0.03% w/w) | - | 8 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 22 |
| External | GF / All Areas / Hot Water Heater, Adjacent Roof Access | Insulation Material | SMF | 754- NTLEN347071- 1kitchen 493S2 | Suspected SMF | - | 2 Units | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 3 23 |
| Internal | GF / Kitchen / Hot Water Heater, Adjacent Dishwasher | Insulation Material | SMF | 754- NTLEN347071- 1kitchen 493S3 | Suspected SMF | - | 1 Unit | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 5 24 |
| Internal | Basement / Switchboard Room, 0003 / Pipework, Throughout | Insulation Material | SMF | 754- NTLEN347071- 1kitchen 493S1 | Suspected SMF | - | 3 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 5 25 |
| External | GF / All Areas / Various Throughout, AC Units | R-410a Refrigerant | ODS | Visual Observation | - | - | 8 units | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 26 |
| External | GF / Subfloor | - | No Access | - | - | - | - | - | - | - | Visually inspected from access hatch only. No access to all areas of subfloor. No access beneath fabric to soil. No or limited access potential hazardous materials present within inaccessible areas | 27 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---------------------|-------------------------|-----------|---------------|--------|---------|----------|-----------|----------------|-------------------|--|---------|
| Internal | GF / Ceilling Space | - | No Access | - | - | - | - | - | - | - | Visually inspected from kitchen access hatch only. No access to all areas of ceiling space. No or limited access potential hazardous materials present within inaccessible areas | 28 |







Bulk Identification Report

Job No: 754-NTLEN347071-1 Bulk ID Report Cessnock Hospital Kitchen 16072024

Client: NSW Health Infrastructure

Client Address: 1 Reserve Rd, St Leonards NSW 2065

Contact: Les Palma

E-mail: Les.Palma@turntown.com

 Date Sampled:
 04-07-2024

 Date Analysed:
 16-07-2024

 Date Authorised:
 17-07-2024

Sampled By: Ben McCann

Site: Cessnock Hospital, 24 View St, Cessnock, NSW



Accredited for compliance with ISO/IEC 17025 - Testing
Accreditation No:2220
Corporate Site No:16909

Please note: Where you have provided the samples for analysis, Tetra Tech Coffey Pty Ltd does not take any responsibility for the quality of such samples. This report relates exclusively to the samples analysed by Tetra Tech Coffey Pty Ltd and as such only the samples submitted or collected for analysis have been considered in presenting these results. The data and results contained in this report are not representative of the site, product or source material as a whole. Tetra Tech Coffey Pty Ltd does not make any warranty or representation in relation to the site, product or source material as a whole. If you suspect any material to contain asbestos, then you must immediately stop the works and activities at the site or in respect of the materials and engage Tetra Tech Coffey Pty Ltd or another suitably trained asbestos hygienist to sample, assess or re-assess (as the case may be) the material suspected to contain asbestos.

Asbestos in Bulk Samples and Non-homogenous Material

Test Method:

Tetra Tech Coffey Pty Ltd analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi-quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Tetra Tech Coffey Pty Ltd's NATA approved SOP WILAB1 sample retention periods are set at 1 month for all samples from the date of analysis.

Analysed At: Tetra Tech Coffey Pty Ltd Laboratory, Level 20, Tower B, Citadel Towers 799 Pacific Highway Chatswood NSW 2067

Total Samples: 8

Approved Identifier
Panika Wongchanda

Approved Signatory

Matthew Tang

| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|--|-----------------|--|
| A10593 | Internal, BASEMENT, Switchboard Room, 0003, Plant & equipment pipework, Central, Bituminous Wrap - Black sticky bituminous material | 23 x 14 x 4 mm | No asbestos fibres detected Organic fibres detected |
| A10594 | Internal, BASEMENT, Switchboard Room, 0003, Plant & equipment, Gasket Material - Beige fibrous gasket material | 5 x 5 x 2 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A10596 | Internal, GF, Kitchen, Cafeteria ceiling lining, Throughout, Vermiculite - Beige powdery mica vermiculite material | 75 x 52 x 11 mm | No asbestos fibres detected Organic fibres detected |
| A10597 | Internal, GF, Kitchen, Cafeteria ceiling lining, Throughout, Vermiculite - Beige powdery mica vermiculite material | 62 x 34 x 8 mm | No asbestos fibres detected Organic fibres detected |
| A10598 | Internal, GF, Kitchen, Cafeteria floor covering, Various throughout, Vinyl Floor Tiles (brown) A. Brown vinyl tile B. Amber adhesive | 52 x 27 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A10599 | Internal, GF, Kitchen, Room 1010 cleaners cupboard, Throughout, Vinyl Floor Tiles (white) A. Beige vinyl tile B. Amber adhesive | 58 x 49 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A27965 | External, GF, All Areas, Metal windows, Throughout, Window Caulking - Grey hardened mastic material | 26 x 17 x 3 mm | Chrysotile (white asbestos) detected |
| A27966 | External, GF, All Areas, Metal windows, Throughout, Window Caulking - Beige crumbly mastic material & debris | 28 x 13 x 2 mm | Chrysotile (white asbestos) detected Organic fibres detected |



Envirolab Services Pty Ltd ABN 37 112 535 645

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 356699

| Client Details | |
|----------------|---|
| Client | Tetra Tech Coffey Pty Ltd |
| Attention | Ben McCann |
| Address | Level 20, Tower B, Citadel Tower, 799 Pacific Hwy, Chatswood, NSW, 2067 |

| Sample Details | |
|--------------------------------------|---|
| Your Reference | 754-NTLEN347071-1, Cessnock Hospital Survey |
| Number of Samples | 3 Paint |
| Date samples received | 16/07/2024 |
| Date completed instructions received | 16/07/2024 |

Analysis Details

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

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

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

| Report Details | | | | | | | |
|--|------------|--|--|--|--|--|--|
| Date results requested by | 23/07/2024 | | | | | | |
| Date of Issue | 19/07/2024 | | | | | | |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full. | | | | | | | |
| Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * | | | | | | | |

Results Approved By

Giovanni Agosti, Group Technical Manager

Authorised By

Nancy Zhang, Laboratory Manager

Envirolab Reference: 356699 Revision No: R00



| Lead in Paint | | | | |
|----------------|-------|------------|------------|------------|
| Our Reference | | 356699-1 | 356699-2 | 356699-3 |
| Your Reference | UNITS | L18417 | L18418 | L18419 |
| Date Sampled | | 04/07/2024 | 04/07/2024 | 04/07/2024 |
| Type of sample | | Paint | Paint | Paint |
| Date prepared | - | 17/07/2024 | 17/07/2024 | 17/07/2024 |
| Date analysed | - | 18/07/2024 | 18/07/2024 | 18/07/2024 |
| Lead in paint | %w/w | 0.03 | 0.099 | 0.02 |

Envirolab Reference: 356699 Revision No: R00

| Method ID | Methodology Summary |
|-------------------|--|
| Metals-020/021/02 | Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS. |

Envirolab Reference: 356699 Page | 3 of 6

Revision No: R00

| QUALIT | Y CONTRO | L: Lead ir | Duplicate | | | | Spike Recovery % | | | |
|------------------|----------|------------|--------------------|------------|------|------|------------------|------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-2 | [NT] |
| Date prepared | - | | | 17/07/2024 | [NT] | | [NT] | [NT] | 17/07/2024 | |
| Date analysed | - | | | 18/07/2024 | [NT] | | [NT] | [NT] | 18/07/2024 | |
| Lead in paint | %w/w | 0.005 | Metals-020/021/022 | <0.005 | [NT] | | [NT] | [NT] | 102 | |

Envirolab Reference: 356699

| Result Definiti | ons | | | | | | |
|-----------------|---|--|--|--|--|--|--|
| 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 | | | | | | |

Envirolab Reference: 356699

Revision No: R00

| Quality Control Definitions | |
|------------------------------------|--|
| Blank | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples. |
| Duplicate | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable. |
| Matrix Spike | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| LCS (Laboratory Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample. |
| Surrogate Spike | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples. |

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

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

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

Envirolab Reference: 356699 Page | 6 of 6





AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

Our ref: ASET63880 / 67060 / 1 - 6 Your ref: 17.1624 - Records and Mortuary and Kitchen NATA Accreditation No: 14484

18 April 2018

Practical Environmental Solutions PO Box 167 Mayfield NSW 2304

Attn: Mr Tony Milligan

ACCREDITATION

Accredited for compliance with IND/IEC 17025.

Dear Tony

Asbestos Identification

This report presents the results of six samples, forwarded by Practical Environmental Solutions on 18 April 2018, for analysis for asbestos.

Hintroduction: Six samples forwarded were examined and analysed for the presence of asbestos.

 Methods: The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (Australian Standard AS 4964 - 2004 and Safer Environment Method 1 as the supplementary work instruction) (Qualitative Analysis only).

Sample No. 1. ASET63880 / 67060 / 1. KT01 - FFCS Eaves soffit to western 3. Results:

aspect.

Approx dimensions 0.75 cm x 0.45 cm x 0.15 cm

The sample consisted of a fragment of a fibro plaster cement material containing organic

Chrysotile asbestos detected.

Sample No. 2. ASET63880 / 67060 / 2. KT02 - Vermiculite spray to cafeteria ceiling.

Approx dimensions 3.5 cm x 2.0 cm x 0.3 cm

The sample consisted of fragments of a soft plaster material containing vermiculite like

material

No asbestos detected.

Sample No. 3. ASET63880 / 67060 / 3. KT0 3 - Cream VFTs to Cafeteria floor.

Approx dimensions 7.0 cm x 4.5 cm x 0.2 cm

The sample consisted of a fragment of a hard floor tile.

Chrysotile asbestos detected.

Sample No. 4. ASET63880 / 67060 / 4. KT04 - SE Verandah infill panels

Approx dimensions 0.35 cm x 0.25 cm x 0.1 cm

The sample consisted of a fragment of a fibre cement material.

Chrysotile asbestos detected.

Sample No. 5. ASET63880 / 67060 / 5. KT05 - Brown VFTs to Cafeteria. Approx dimensions 6.1 cm x 4.2 cm x 0.2 cm

The sample consisted of a fragment of a hard floor tile.

Chrysotile asbestos detected.



Asbestos Register Review & Update Cessnock Hospital - Mortuary, Kitchen and Records



Sample No. 6. ASET63880 / 67060 / 6. KT06 - Broadsheet vinyl floor covering. Approx dimensions $8.0~\mathrm{cm} \times 5.0~\mathrm{cm} \times 0.2~\mathrm{cm}$ The sample consisted of a fragment of a vinyl floor tile. No asbestos detected (An independent confirmatory analytical technique is advised due to the nature of the sample).

Analysed and reported by,

Cam SK

Chamath Annakkage. BSc Analyst / Approved Identifier

Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg) Occupational Hygienist / Approved Signatory

Accredited for compliance with ISO/IEC 17025.

ACCREDITATION

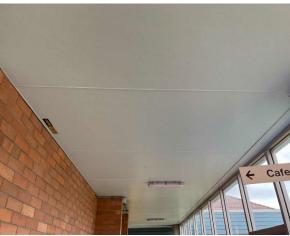
The results contained in this report relate only to the sample/s submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample/s is/are representative. Results indicating "No ashestos detected" indicates a reporting limit specified in AS4964-2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No ashestos detected" as specified and recommended by AS4964-2004. Trace / respirable level ashestos will be reported only when detected.

Appendix C: Photographs





Line ID 1: External, GF, All Areas, Awning, Southeast Verandah, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 1.1: External, GF, All Areas, Awning, Southeast Verandah, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 2: External, GF, All Areas, Eaves, Throughout, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 3: External, GF, All Areas, Infill Panels, Adjacent Air Conditioning Refrigerator Pump, Fibre Cement Sheet -Chrysotile Asbestos Detected



Line ID 4: External, GF, All Areas, Infill Panels, Below Windows, Fibre Cement Sheet - Chrysotile Asbestos Detected



Line ID 4.1: External, GF, All Areas, Infill Panels, Below Windows, Fibre Cement Sheet - Chrysotile Asbestos Detected



Line ID 5: External, GF, All Areas, Metal Windows, Throughout, Window Caulking - Chrysotile Asbestos Detected



Line ID 6: External, GF, All Areas, Metal Windows, Throughout, Window Caulking - Chrysotile Asbestos Detected



Line ID 7: Internal, GF, Cafeteria Ceiling Lining, Throughout, Vermiculite - No Asbestos Detected



Line ID 8: Internal, GF, Kitchen Ceiling Lining, Throughout, Vermiculite - No Asbestos Detected



Line ID 9: Internal, GF, Kitchen, Cafeteria Floor Covering, Various Throughout, Vinyl Floor Tiles (brown) - Chrysotile Asbestos Detected



Line ID 10: Internal, GF, Kitchen, Cafeteria Floor Covering, Various Throughout, Vinyl Floor Tiles (brown) - Chrysotile Asbestos Detected



Line ID 10.1: Internal, GF, Kitchen, Cafeteria Floor Covering, Various Throughout, Vinyl Floor Tiles (brown) - Chrysotile Asbestos Detected



Line ID 11: Internal, GF, Kitchen, Cafeteria, Throughout, Vinyl Floor Tiles (white with brown specs) - Chrysotile Asbestos Detected



Line ID 11.1: Internal, GF, Kitchen, Cafeteria, Throughout, Vinyl Floor Tiles (white with brown specs) -Chrysotile Asbestos Detected



Line ID 12: Internal, GF, Kitchen, Room 1010 Cleaners Cupboard, Throughout, Vinyl Floor Tiles (white) - Chrysotile Asbestos Detected



Line ID 12.1: Internal, GF, Kitchen, Room 1010 Cleaners Cupboard, Throughout, Vinyl Floor Tiles (white) - Chrysotile Asbestos Detected



Line ID 13: Internal, GF, Kitchen, Room 1012, Throughout, Vinyl Floor Tiles (white with brown specs) - Chrysotile Asbestos Detected



Line ID 14: Internal, GF, Kitchen, Rooms 1008 & 1007, Throughout, Vinyl Floor Tiles (white with brown specs) - Chrysotile Asbestos Detected



Line ID 15: Internal, GF, Kitchen, Rooms 1008 & 1007, Various Throughout, Vinyl Floor Tiles (brown) - Chrysotile Asbestos Detected



Line ID 16: Internal, Basement, Switchboard Room, 0003, Electrical Distribution Board, Southwest, Internal Components - Suspected Asbestos



Line ID 17: Internal, Basement, Switchboard Room, 0003, Electrical Distribution Board, Southwest, Compressed Bituminous Panel - Suspected Asbestos



Line ID 17.1: Internal, Basement, Switchboard Room, 0003, Electrical Distribution Board, Southwest, Compressed Bituminous Panel - Suspected Asbestos



Line ID 18: Internal, Basement, Switchboard Room, 0003, Plant & Equipment, Gasket Material - Chrysotile Asbestos Detected



Line ID 18.1: Internal, Basement, Switchboard Room, 0003, Plant & Equipment, Gasket Material - Chrysotile Asbestos Detected



Line ID 19: Internal, Basement, Switchboard Room, 0003, Plant & Equipment Pipework, Central, Bituminous Wrap - No Asbestos Detected



Line ID 19.1: Internal, Basement, Switchboard Room, 0003, Plant & Equipment Pipework, Central, Bituminous Wrap - No Asbestos Detected



Line ID 20: Internal, GF, Kitchen, Door Frames, Throughout, Green (Light) Paint - Lead Detected (0.099% w/w)



Line ID 20.1: Internal, GF, Kitchen, Door Frames, Throughout, Green (Light) Paint - Lead Detected (0.099% w/w)



Line ID 21: Internal, GF, Kitchen, Wall lining, Throughout, Blue (Light) Paint - Lead Detected (0.02% w/w)



Line ID 22: Internal, Basement, Switchboard Room, 0003, Doors, Throughout, Brown (Light) Paint - Lead Detected (0.03% w/w)



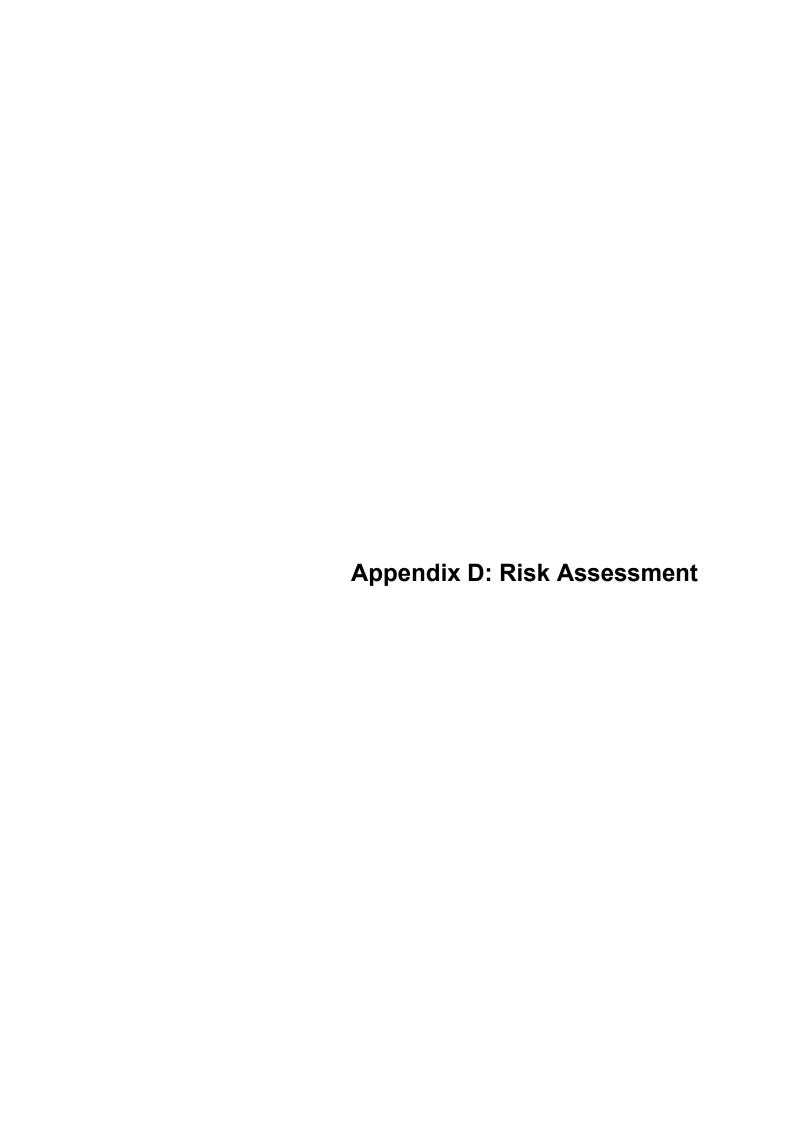
Line ID 23: External, GF, All Areas, Hot Water Heater, Adjacent Roof Access, Insulation Material - Suspected SMF



Line ID 24: Internal, GF, Kitchen, Hot Water Heater, Adjacent Dishwasher, Insulation Material - Suspected SMF



Line ID 25: Internal, Basement, Switchboard Room, 0003, Pipework, Throughout, Insulation Material - Suspected SMF





Risk Assessment

The risk assessment is explained, in the tables below. Our semi-quantitative risk assessment borrows elements from the materials risk assessment documented in HSG264: Asbestos: The survey guide – HSE and the priority risk assessment documented in HSG 227: A comprehensive guide to Managing Asbestos in premises – HSE, providing an element of quantification to the qualitative nature of site risk assessment.

Some of the elements of these well documented risk assessments have been omitted. Most notably the asbestos type from the materials risk assessment, as all types of asbestos are listed by the International Agency for Research on Cancer (IARC) as Type 1 Carcinogens. In addition, we have omitted the maintenance activity from HSG 277. The reason being that human risk factors associated with maintenance activities are often difficult to assess in-situ and require detailed input from the Person in Control of a Business of Undertaking (PCBU).

The risk assessment then takes into account all other Hazardous materials and utilizes similar algorithms to create a risk assessment for those materials.

The asbestos containing material risk score is a quantitative assessment determined by the sum of the scores based on the material assessment and the likelihood of exposure, i.e. Risk score = Material Score + Location Score (out of as possible 18).

An explanation of the material assessment and likelihood of exposure scores can be found in the tables below.

Table 2 - Risk Scores

| Overall Risk Assessment Score | Overall Risk Rating |
|-------------------------------|---------------------|
| 0 – 4 | Very Low |
| 5 – 8 | Low |
| 9 – 13 | Moderate |
| 14 – 18 | High |

Table 3 – Product Type (or debris)

| Examples of Materials - Asbestos | Examples of Materials - Hazmat | Score |
|--|--|-------|
| Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement etc.) | SMF composite products / insulation batts / woven products, Lead paint, Lead Compounds/Alloys/Products, Small PCB containing electrical capacitors | 1 |
| Asbestos insulating board, mill boards, other low- density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt | RCF woven/treated products, Lead paint flakes, Industrial PCB containing industrial transformers | 2 |
| Thermal insulation (e.g. pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing | RCF loose fill products, Lead dust, PCB containing oils in bulk storage, or uncontained spills. | 3 |

Table 4 – Extent of Damage or Deterioration

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Good condition: no visible damage | Good condition: no visible damage | 0 |
| Low damage: a few scratches or surface marks; broken edges on boards, tiles etc. | Low damage: a few scratches or surface marks; Peeling paint, Large paint flakes, Redundant PCB container in accessible area out of electrical product | 1 |
| Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres | Medium damage: significant breakage of materials or several small areas where material has been damaged, good condition sprays and insulation, large amounts of fine flaking paint and debris, Leaking PCB containing electrical equipment | 2 |
| High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris | High damage or delamination of materials. Visible debris, Lead dust, Pooling PCB oils, leaking oil bulk containers | 3 |

Table 5 – Surface type and treatment

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles | SMF/RCF composite products, insulation products sealed behind a non-friable barrier, Lead paints <0.1%w/w, lead, compounds/ alloys/ products <0.1%w/w lead, PCB oils <2mg/kg | 0 |
| Enclosed sprays and lagging, asbestos insulating board (with exposed face painted or encapsulated), asbestos cement sheets etc. | SMF/RCF woven and insulation products, Lead paints ≥0.1%w/w and <0.25%w/w, PCB ≥2mg/kg and <50mg/kg in oil | 1 |
| Unsealed asbestos insulating board, or encapsulated lagging and sprays | SMF/RCF heat-treated insulation products, Lead paints ≥0.25%w/w and <1.0%w/w, Lead dusts above recommended clearance indicator based on AS/NZS4361.2. PCB ≥50mg/kg and <10,000mg/kg in oil | 2 |
| Unsealed laggings and sprayed asbestos | Lead dusts a multiple of at least 5 times above recommended clearance indicator based on AS/NZS4361.2, Lead paint >1.0%, ≥10,000mg/kg in oil (10%w/w) | 3 |

 $^{^{\}rm 2}$ Lead and PCB refers specifically to the analysis result





Legislative Requirements

The assessment, and preparation of this report have been undertaken in accordance with the requirements of State/Territories legislation and standards outlined below.

State/Territories Relevant Legislation

| States & Territories | Acts | Legislation |
|------------------------------------|--|--|
| Australian Capital Territory (ACT) | ACT Work Health & Safety Act 2011 | ACT Work Health & Safety Regulation 2011 |
| New South Wales (NSW) | NSW Work Health & Safety Act 2011 | NSW Work Health & Safety Regulation 2017 |
| Northern Territory (NT) | NT Work Health & Safety Act 2011 | NT Work Health & Safety Regulation 2017 |
| Queensland (QLD) | QLD Work Health & Safety Act 2011 | QLD Work Health & Safety Regulation 2011 |
| South Australia (SA) | SA Work Health & Safety Act 2012 | SA Work Health & Safety Regulation 2012 |
| Tasmania (TAS) | Tasmanian Work Health & Safety Act 2012 | Tasmanian Work Health & Safety Regulation 2012 |
| Victoria (VIC) | Victorian Occupational Health and Safety Act 2004 | Victorian Occupational Health and Safety Regulation 2017 |
| Western Australia (WA) | Occupational Safety and Health Act 1984 | Occupational Safety and Health Regulation 1996 |

States/Territories Code of Practices & Compliance Codes

| States & Territories | Codes of Practices & Compliance Codes | | | |
|------------------------------------|--|---|--|--|
| Australian Capital Territory (ACT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| New South Wales (NSW) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Northern Territory (NT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Queensland (QLD) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| South Australia (SA) | Code of Practice: How to manage and Control asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Tasmania (TAS) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Victoria (VIC) | Compliance Code: Managing Asbestos in Workplaces. | Compliance Code: Removing Asbestos in Workplaces. | | |

| Western Australia (WA) | Code of Practice for Management and Control of Asbestos in Workplaces [NOHSC:2018(2005)]. | Code of Practice for the Safe Removal of Asbestos [NOHSC:2002(2005)] |
|------------------------|--|--|
|------------------------|--|--|

The Victorian Compliance Codes align with the intent of the SafeWork Australia Model Code of Practice

Hazardous Materials Standard & Guidance Notes

| Hazardous Material | Guidance Notes |
|-------------------------------|---|
| Lead Based Paint | AS/NZS <i>4361.2:2017</i> Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings |
| Lead Containing Dust | National Environmental Protection Measure (NEPM) (NEPC,1999) as updated in 2013. |
| Synthetic Mineral Fibres | National Occupational Health and Safety Commission (1990) Synthetic Mineral Fibres; National Standard for Synthetic Mineral Fibres; and the National Code of Practice for the Safe Use of Synthetic Mineral Fibres |
| Polychlorinated Biphenyls | ANZECC (1997) Identification of PCB-containing Capacitors: An Information Booklet for Electricians and Electrical Contractors |
| Ozone Depleting Substances | UNEP (2001) Inventory of Trade Names of Chemical Products containing Ozone Depleting Substances and their Alternatives |

Each section is to be read in conjunction with the whole of this report, including the appendices.

Appendix F: Methodology



Methodology

Hazmat surveys are undertaken considering a risk management approach, in accordance with relevant statutory regulations and relevant Codes of Practice. A risk assessment was conducted based on a number of factors associated with hazmat identified during the survey and prioritised through Risk and Action Classifications.

The assessment involved the onsite investigation for the presence of ACM, SMF, LBP systems, LCD, PCB and ODS including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs). Information was collected from the site owners/occupiers/tenants where available on relevant issues pertaining to the site. Based on the available data and the status at the time of inspection, where items were identified, visual and/or analytical characterisation (where required) was performed and reported in **Appendix A: Asbestos and Hazardous Materials Register**.

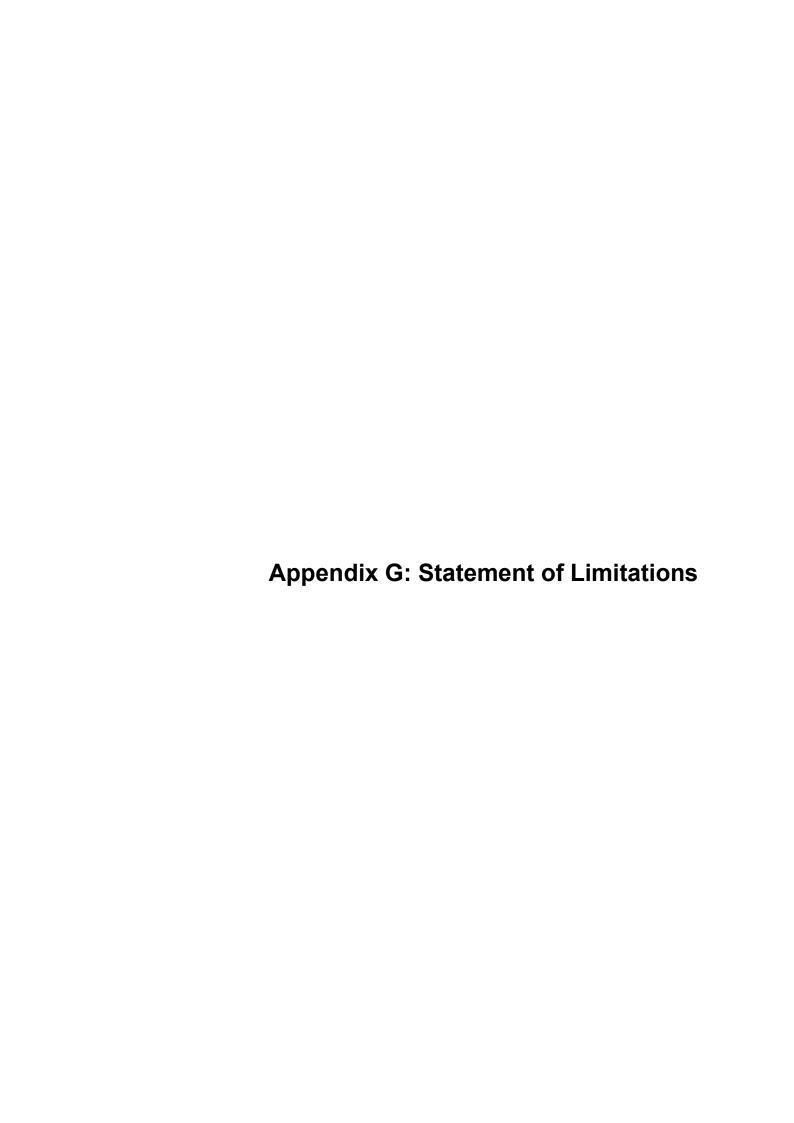
The assessment was conducted on the basis of the condition, type and location of the materials at the time of inspection. The scope of this investigation did not allow intrusive sampling techniques to be undertaken in all locations, and consequently the register may have limitations as a reference document for the purposes of renovation or demolition.

Only 'typical' suspected material occurrences are inspected and sampled. Sampling is undertaken on a representative basis, for example, the inspection of one fire door of the same type within the same area is undertaken (i.e. not every 'matching' fire door is examined), unless specifically instructed. Sample collection was performed in a non-destructive and non-invasive manner by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas contain asbestos materials may also be made and stated within the register.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with relevant Statutory Regulations, Codes of Practice and Tetra Tech's Work Instructions. Laboratories undertaking analysis are appropriately NATA certified for the analysis conducted. LCD thresholds are adopted from lead in soil thresholds found in the National Environment Protection Assessment of Site Contamination (ASC) Measure (1999) as amended in 2013 (NEPM).

The presence of asbestos in bulk samples is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques. Where asbestos was found to exist, a risk assessment was conducted on each item and a priority rating applied. This was conducted in accordance with the protocols described in **Appendix D: Risk Assessment**.

The asbestos and hazmat register is made up of relevant information gathered on site plus Tetra Tech's assessment of risk and assignment of action ratings. Reference to photographs, where available, is made in the register along with sample identification and analysis results, where applicable. Sample analysis results from previous assessments may be utilised and referenced in this register.



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Statement of Limitations

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

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

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client's instruction, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected.

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

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

The assessment brief is to identify every reasonably accessible hazmat. Reasonably accessible does not extend to searching for concealed hazmat beneath concrete encased structural beams or beneath concrete floors, behind another hazmat, or any other locations which, to access, would cause structural damage that could potentially destabilise the structure or the building. Given the way in which hazmat was used in the construction of buildings, some may only be detected during the course of subsequent demolition.

Any areas within the remit of the assessment but not described within the body of the report or in the hazmat register should be regarded by the client as un-assessed, and suspected as ACM potentially containing amphibole asbestos. A competent person should assess such areas before any work affecting them is carried out.

It must be assumed that materials visually assessed as presumed asbestos contain amphibole asbestos, unless sampled and analysed to prove otherwise. All areas where access was not possible must also be presumed to contain asbestos until proven otherwise.

Asbestos Containing Materials

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

Representative sampling is defined as one like sample per consistent material type, situation or item. In these instances, only one test sample will be collected for analytical confirmation and the results expressed as consistent and typical of the building. It is advisable to presume that materials similar to those positively identified as asbestos also contain asbestos until proved otherwise. It should not be presumed that materials similar in appearance to those tested and found not to contain asbestos also do not contain asbestos.

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

Notably, with some asbestos containing bulk material it can be very difficult, or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres

present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

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

Internal building materials should be assumed to contain asbestos until otherwise assessed.

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

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

The following limitations and restrictions to specific materials, installations and locations are commonly found during assessments of this nature, even if safe access can be provided through consultation with the client this inspection and report may not include the following areas:

- Risers / Ceiling, Floor or Wall Cavities, and Voids may be completely blocked or bricked in. Occasionally may only be detected if shown on building construction plans or during demolition
- Columns / Structural Elements these will not be penetrated if doing so will damage the stability
 of the building
- Roofs / External Areas these will not be checked if safe access cannot be achieved
- Confined Spaces these will not be checked if safe access cannot be achieved
- Restricted Access areas subject to restricted access will not be checked unless special arrangements have been made through the client within the remit of the assessment
- Live Plant or Electrical Installations live electrical installations including fuse boxes, electrical control cabinets, distribution panels etc. are not routinely checked for safety reasons. Electrical equipment will only be examined if it is locked off and an isolation certificate has been issued. Under exceptional circumstances, when arranged by the client, examination of non-isolated equipment may take place under the supervision of an electrician
- Live Refrigerators / Cold Rooms / Mechanical Equipment / Heater Units / Kilns may contain asbestos internally, which is not visible or accessible until the unit is isolated and dismantled

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

This report does not comment on, or present information regarding regulatory waste disposal practices and the associated waste disposal legislative requirements for hazardous materials. Prior to the disposal of any hazardous materials from site, clarification from the EPA should be sought by you, the client or the controller of the site (PCBU).

As part of the site inspection, materials may be suspected to be non-hazardous based on age and/or appearance. If any of these materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and sampling of this material, with analytical confirmation should be undertaken in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Materials including (but not limited to) e.g. fire retardants, vermiculite, sprayed coatings and insulations cannot be feasibly sampled in their entirety due to the heterogeneous nature of such materials. Sample results provided are only representative of the material sampled, and in that particular sample location. If any such materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and targeted area sampling, with analytical

confirmation should be undertake in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Should any other material suspected to contain asbestos or hazmat be found at the site, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.



NSW Health Infrastructure c/o Turner & Townsend Asbestos and Hazardous Materials Pre-Demolition Assessment

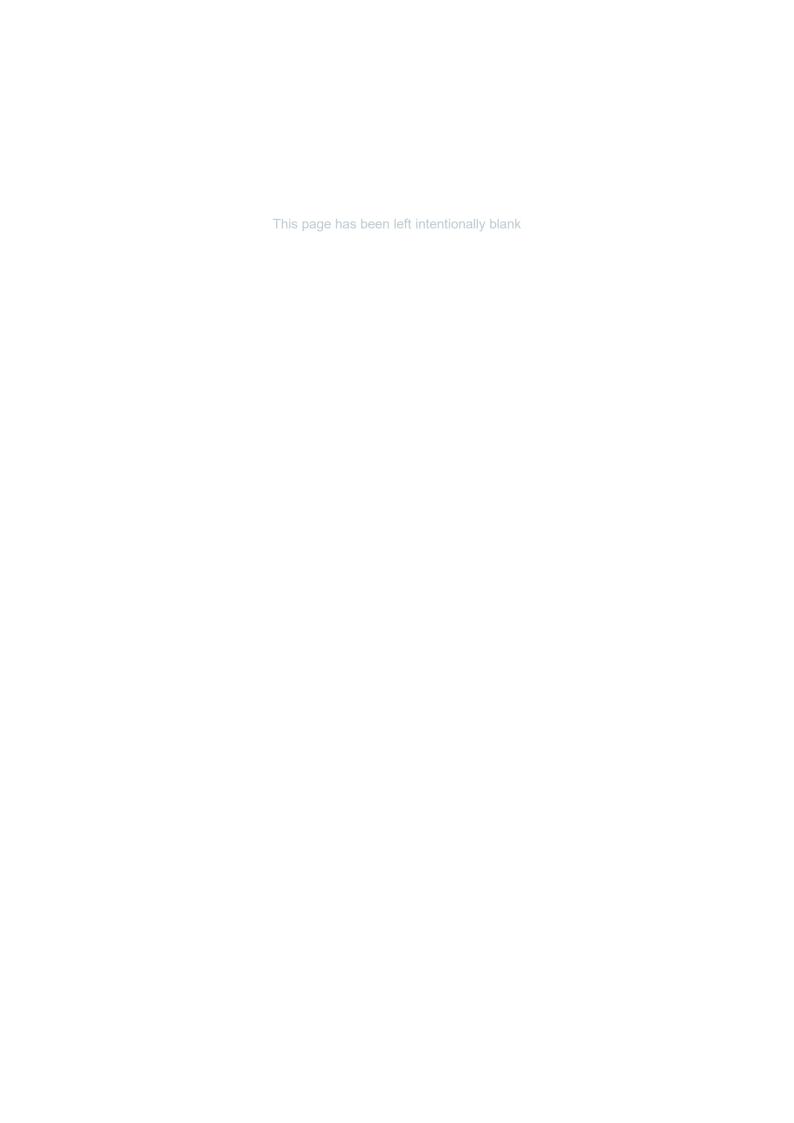
Maintenance Workshop

Cessnock Hospital

Cessnock NSW 2325

23/08/2024





Asbestos and Hazardous Materials Pre-Demolition Assessment

Prepared for.

NSW Health Infrastructure c/o Turner & Townsend

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| R01 | Final | 23/08/2024 | Sam Crofts | Ben McCann | Aaron Holmes |

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Appendix A: Asbestos and Hazardous Materials Register

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Executive Summary

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Maintenance Workshop located at Cessnock Hospital, Cessnock NSW 2325 (the site).

The purpose of the hazmat pre-demolition assessment was to identify and assess the health risk posed by hazmat, including asbestos containing materials (ACM) which may be encountered during future demolition/refurbishment works of the building. This is in order to meet the requirements of the relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes.

State/Territory legislation and industry guidance requires that information in this report is supplied on the understanding that the area surveyed is scheduled for demolition/refurbishment works, and that identified asbestos and other hazmat will be removed prior to, or as part of these works. Asbestos or other hazmat remaining in situ will need to be detailed in the asbestos and hazmat register and site-specific asbestos management plan designed to control the risks of exposure to hazardous materials.

The following hazardous building materials were identified at the time of the assessment:

| Property | Asbestos Containing Materials | | Lead Based Paint | Lead Containing Dust | Synthetic Mineral Fibre | Poly- chlorinated Biphenyls | Ozone Depleting Substances |
|--|-------------------------------------|----------|------------------------|----------------------------|-------------------------------|-----------------------------------|----------------------------------|
| | Non- Friable | Friable | | | | | |
| Cessnock Hospital, Maintenance Workshop | √ | √ | ✓ | √ | ✓ | ✓ | - |

Full details of the material assessments can be located within **Appendix A: Asbestos and Hazardous Materials Register**.

Areas of No Access or Limited Access were present and are described in Section 2.2. It should be presumed that hazmat are present in these areas until further inspection can confirm or refute their presence.

A number of other recommendations were made in the body of this report which address the ongoing management of hazardous building materials at this site.

This executive summary must be read in conjunction with this entire report and the limitations contained therein.

1. Introduction

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Maintenance Workshop located at Cessnock Hospital, Cessnock NSW 2325 (the site). Sam Crofts of Tetra Tech conducted the assessment on the 05/07/2024.

Note: The building was occupied at the time of the assessment. As such, destructive/intrusive sampling methods were not able to be used during the survey. A destructive hazardous materials survey must be carried out when the building has been vacated prior to any demolition or refurbishment works.

1.1. Site Information

The asbestos and hazardous materials pre-demolition assessment was undertaken of the Maintenance Workshop located at Cessnock Hospital, Cessnock NSW 2325 (the site).

| Table 1: Site Information | |
|---------------------------|--|
| Site: | Maintenance Workshop, Cessnock Hospital, Cessnock NSW 2325 |
| Age (Circa): | 1950's |
| Site Description: | Maintenance Workshop Building |

1.2. Objective and Scope of Works

The objectives/scope of the hazmat assessment was to:

- Identify the presence of the following confirmed and or suspected hazmat building materials within accessible areas of nominated building(s):
 - Asbestos Containing Materials (ACM);
 - Lead Based Paint (LBP);
 - Lead Containing Dust (LCD);
 - Synthetic Mineral Fibres (SMF);
 - Polychlorinated Biphenyls in fluorescent light capacitors (PCBs); and
 - Ozone Depleting Substances (ODSs).
- Collect samples of suspected ACM and/or LBP and LCD, for analysis by a NATA accredited laboratory;
- Visually determine the presence of SMF, PCB-containing light fittings and ODSs;
- Recommend risk management strategies to mitigate risks associated with ACM and other hazmat for removal and ongoing occupancy;
- Prepare a detailed assessment report in alignment with the requirements of relevant State/Territory Regulations, Compliance Codes, Codes of Practice and Guidance Notes, and
- Provide a copy of the assessment report in electronic (PDF) format to NSW Health Infrastructure.

2. Findings

The results of the asbestos and hazardous materials pre-demolition assessment are provided in a register format which is designed to provide readily available information about the presence of hazmat prior to demolition or refurbishment.

2.1. Assessment Findings

The findings of this assessment are presented in tabulated format, including building materials that have been photographed are depicted in **Appendix A: Asbestos and Hazardous Materials Register**.

The following significant key findings are noted:

2.1.1. Asbestos Containing Materials

| Location | Material Description | Risk Rating |
|---|---|-------------|
| External / GF / Room 1040, Old Coal Bunker / Floor, Throughout | Fibre Cement Debris | Medium |
| Internal / GF / Laundry / Floor Covering, Throughout | Vinyl Floor Tiles (grey with white specs, large squares) | Medium |
| Internal / GF / Laundry / Pipework, Throughout | Lagging | Medium |
| Internal / GF / Main Workshop Area / Ceiling Space, Central | Lagging (metal encased material) | Medium |
| Internal / GF / Painters Shop / Pipework Penetration, Northeast Adjacent Generator | Lagging | Medium |
| Internal / GF / Room 1032, Toilet / Floor Covering, Throughout | Vinyl Floor Tiles (grey with white specs) | Medium |
| External / GF / Adjacent Clinical Information Department Entrance / Awning | Fibre Cement Sheeting | Low |
| External / GF / All Areas / Eaves, Throughout | Fibre Cement Sheeting | Low |
| External / GF / All Areas / Gable End, Site Office Entrance, Roof | Fibre Cement Sheeting | Low |
| External / GF / All Areas / Infill Panel, Above windows, Throughout | Fibre Cement Sheeting | Low |
| External / GF / All Areas / Infill Panel, Adjacent Site Office Roller Door, Above Window | Fibre Cement Sheeting | Low |
| External / GF / Room 1040, Old Coal Bunker / Wall Lining, Southeast | Fibre Cement Sheeting | Low |
| External / GF / Workshop Entrance / Wall Lining | Fibre Cement Sheeting | Low |
| Internal / GF / 1044, Painters Room / Electrical Distribution Board DB18, Adjacent Roller Door | Internal Electrical Components | Low |
| Internal / GF / Kitchenette / Pipework, Central | Lagging | Low |
| Internal / GF / Laundry / Floor Covering, Throughout | Vinyl Floor Tiles (grey with white specs, large squares) - Painted green | Low |
| Internal / GF / Laundry / Floor Covering, Various Throughout | Vinyl Floor Tiles (khaki green with white specs) | Low |

| Internal / GF / Laundry / Floor covering, Throughout | Vinyl Floor Tiles (grey with white specs) | Low |
|---|---|-----|
| Internal / GF / Laundry / Pipework, Central | Gasket Material | Low |
| Internal / GF / Laundry / Pipework, Central | Gasket Material | Low |
| Internal / GF / Laundry / Pipework, North East | Gasket Material | Low |
| Internal / GF / Laundry / Pipework, Southwest | Gasket Material | Low |
| Internal / GF / Maintenance Office / Floor Covering, Throughout | Vinyl Floor Tiles (yellow) | Low |
| Internal / GF / Maintenance Office / Floor Covering, Various Throughout | Vinyl Floor Tiles (red) | Low |
| Internal / GF / Maintenance Office / Floor Covering, Various Throughout | Vinyl Floor Tiles (blue) | Low |
| Internal / GF / Main Switchboard Room / Electrical Distribution Board 1 | Internal Electrical Components | Low |
| Internal / GF / Main Switchboard Room / Electrical Distribution Board 1, Central | Compressed Bituminous Panel | Low |
| Internal / GF / Maintenance Office / Ceiling Lining, Throughout | Fibre Cement Sheeting | Low |
| Internal / GF / Room 1021 & 1022 / Ceiling Lining, Throughout | Fibre Cement Sheeting | Low |
| Internal / GF / Room 1032, Toilet / Ceiling, Throughout | Fibre Cement Sheet | Low |
| Internal / GF / Room 1034, Storage / Packer/Ceiling Lining, South West | Fibre Cement Sheeting | Low |
| | | |

2.1.2. Lead Based Paint

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| External / GF / Roof / Roof, Throughout | Brown (Dark) Paint | Low |
| External / GF / All Areas / Ceiling lining, Adjacent Clinical Information Department Entrance | White Paint | Low |

2.1.3. Lead Containing Dust

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| Internal / GF / All Areas / Laundry, High Level Surfaces, Throughout | Dust | Low |
| Internal / GF / Painters Shop / Ceiling Space, Throughout | Dust | Low |

2.1.4. Synthetic Mineral Fibres

| Location | Material Description | Risk Rating |
|---|------------------------------|-------------|
| Internal / GF / Main Workshop Area / Ceiling Space, All Surfaces, Throughout | Dust | Low |
| Internal / GF / Painters Shop / Ceiling Space, Throughout | Dust | Low |
| Internal / GF / Main Workshop Area / Pillow Insulation, Cable Penetration, East | Insulation Material | Very Low |
| External / GF / All Areas / Walkway Between Palliative Storage and Emergency, Below Window | Construction Joint Mastic | Very Low |
| Internal / GF / Laundry / Insulation Batts, On Top of Office Ceiling | Insulation Material | Very Low |
| Internal / GF / Palliative Care Storage Loading Dock / Floor Covering, Throughout | Vinyl Sheet (white) | Very Low |
| Internal / GF / Room 1034, Storage / Sarking, Roof Lining | Insulation Material | Very Low |
| Internal / GF / 1044, Painters Room / Ceiling Space | Insulation Batts | Very Low |
| Internal / GF / 1044, Painters Room / Ceiling Space, Pipework | Insulation Material | Very Low |
| Internal / GF / 1044, Painters Room / Ceiling Space, Sarking | Insulation Material | Very Low |
| Internal / GF / Kitchen / Hot Water Heater, Above Sink | Internal Insulation Material | Very Low |
| Internal / GF / Kitchenette / Hot Water Heater, Adjacent Entry | Internal Insulation Material | Very Low |
| Internal / GF / Main Workshop Area / Ceiling Space, Pipework, Central | Insulation Material | Very Low |

2.1.5. Polychlorinated Biphenyls

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| Internal / GF / Laundry / Fluorescent Light Fitting, Throughout | Capacitor(s) | Very Low |
| Internal / GF / Painters Shop / Ceiling Space, Stored Item, Fluorescent Light Fitting | Capacitor(s) | Very Low |

2.1.6. Ozone Depleting Substances

No suspect ODS's identified at the time of the assessment.

2.2. Access Restrictions

Where no access or limited access areas have been identified it should be presumed that hazmat are present in these areas until further investigation can confirm or refute their presence.

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

2.2.1. No Access Areas

The following areas were not accessible at the time of the assessment:

- · Within live electrics, plant and ductwork throughout; and
- Areas outside the scope of assessment.
- External GF Subfloor No access hatch present or accessible at time of inspection.

2.2.2. Limited Access Areas

Access to the following areas was limited at the time of the assessment:

- Ceiling voids areas adjacent to access hatches inspected only;
- Wall voids;
- Below floors;
- Behind ceramic wall tiles;
- · Beneath floor coverings;
- · Subfloor spaces;
- Risers;
- Occupied areas;
- Formwork to concrete slabs; and
- Roof.

3. Recommendations

The following recommendations are provided with respect to hazmat identified during the assessment of the site. This assessment only covers the parts of the site that have been accessed and been assessed in accordance with the approved scope.

3.1. Asbestos Containing Materials

The preference will always be to eliminate the asbestos hazards from the site and if it is practicable for the occupier to do so then asbestos removal should always be considered. ACM on site, which were found to be in a bonded and stable condition, may be managed in situ and periodically inspected if removal is not practicable.

If managed in situ, all identified or presumed ACM should be appropriately labelled, where possible, and regularly inspected to assess their condition and potential changes to health risk.

Prior to any demolition, partial demolition, renovation or refurbishment, ACM likely to be disturbed by those works should be removed in accordance with relevant codes of practices, compliance codes and legislation.

3.1.1. Asbestos Control Measures

- If the ACM is friable, in a poor/unstable condition and accessible with risk to health from exposure, immediate access restrictions should be applied, and removal is required as soon as practicable using a licensed contractor.
- If the ACM is friable, accessible but in a stable condition, removal is preferred. However, if removal is not immediately practicable, short-term control measures (i.e. restrict access, sealing, enclosure etc) may be employed until removal can be facilitated.
- If the ACM is non-friable and, in a poor/unstable condition, disturbance should be minimised. Removal or encapsulation may be appropriate controls. ACM which are found in localised areas and identified as damaged, consisting of small qualities of non-friable cement debris may not require the highest removal priority. The removal priority may be lowered due to a low risk of disturbance. Further confirmation can be obtained via asbestos fibre air monitoring where the result is found to be < 0.01 fibre/mL.
- For the instances above and further assessment of the risk, airborne fibre monitoring is recommended and can assist with decisions on the most appropriate, and urgency of, control measures.
- Where ACM is in a good, stable condition, ongoing maintenance and periodic inspection would be appropriate control measures.
- Remaining ACM identified or presumed should be appropriately labelled where possible. Those items should be regularly inspected to ensure they are not deteriorating and resulting in a potential risk to health.
- An asbestos management plan (AMP) should be created and maintained for all ACM that remain
 at the site to assist the persons conducting a business or undertaking (PCBU) with the
 management of these materials. The AMP must ensure that suitable control measures are
 implemented to prevent site personnel and others from being exposed to airborne asbestos fibres.
- Schedule periodic reassessment of ACM remaining on-site to monitor their aging/deterioration so that the PCBU can be alerted if any ACM require encapsulation or removal.
- Prior to any demolition or refurbishment works, all asbestos and hazardous materials identified and likely to be disturbed by demolition or refurbishment works should be removed in accordance with the legislative requirements and relevant codes of practice or compliance codes.
- During future demolition works, if any materials that are not referenced in this report and are suspected of containing asbestos are encountered, then works must cease and an asbestos hygienist should be notified to determine whether the material contains asbestos.

The recommendations, conclusions or stability of asbestos materials contained in this report shall not abrogate a person of their responsibility to work in accordance with statutory requirements, codes of practice, guidelines, material safety data sheets, work instructions or reasonable work practices.

3.2. Lead Based Paint

- Any works that are likely to disturb lead based paint surface should be undertaken in accordance with the Australian Standard (AS4361.2:2017), Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings.
- Prior to any disturbance of lead based paint a comprehensive risk assessment is to be conducted.
- Any loose and peeling lead based paint should be stabilised (using hand-held scrapers, drop cloths and wet misting where appropriate) and the paint chips disposed of as hazardous waste.
- Any remediation works that may generate dust or fumes (i.e. sanding, burning) must be performed
 under controlled conditions by a suitably resourced and experienced hazardous material/waste
 abatement contractor (e.g. a Class A licensed asbestos removal contractor).

3.3. Lead Containing Dust

- Any work processes involving lead containing dust must be undertaken in a manner to ensure that
 no worker is exposed to lead at concentrations above the workplace exposure standard (WES) of
 0.05mg/m³ over an eight-hour day.
- Prior to any disturbance of lead containing dust a comprehensive risk assessment is to be conducted.
- Lead containing dust removal works should include the use of high efficiency particulate air (HEPA)
 filtered vacuum cleaners and wet wiping techniques by a licensed contractor under controlled leadcontaining dust conditions in conjunction with air monitoring and clearances by a competent
 hygienist.

3.4. Synthetic Mineral Fibres

 SMF materials that are likely to be disturbed during any proposed demolition/refurbishment works should be handled in accordance with The National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)].

3.5. Polychlorinated Biphenyls

- It may not be considered feasible to inspect every light fitting within a premise as information available in the public domain on the identification of PCB-containing capacitors is limited. However, all metal capacitors should be treated as containing PCB unless determined otherwise
- All capacitors containing or suspected as PCB or the fluorescent light fittings likely to be disturbed during future works should be removed prior to any future demolition, partial demolition, renovation or refurbishment in accordance with Department of Occupational Health, Safety and Welfare, Safe Handling of PCB in Fluorescent Light Capacitors – 1993 and with the Polychlorinated Biphenyls Management Plan, Revised Edition April 2003.

3.6. Training

Information, instruction and training must be provided to workers, contractors and others who may come into contact with hazardous materials in a workplace, either directly or indirectly.

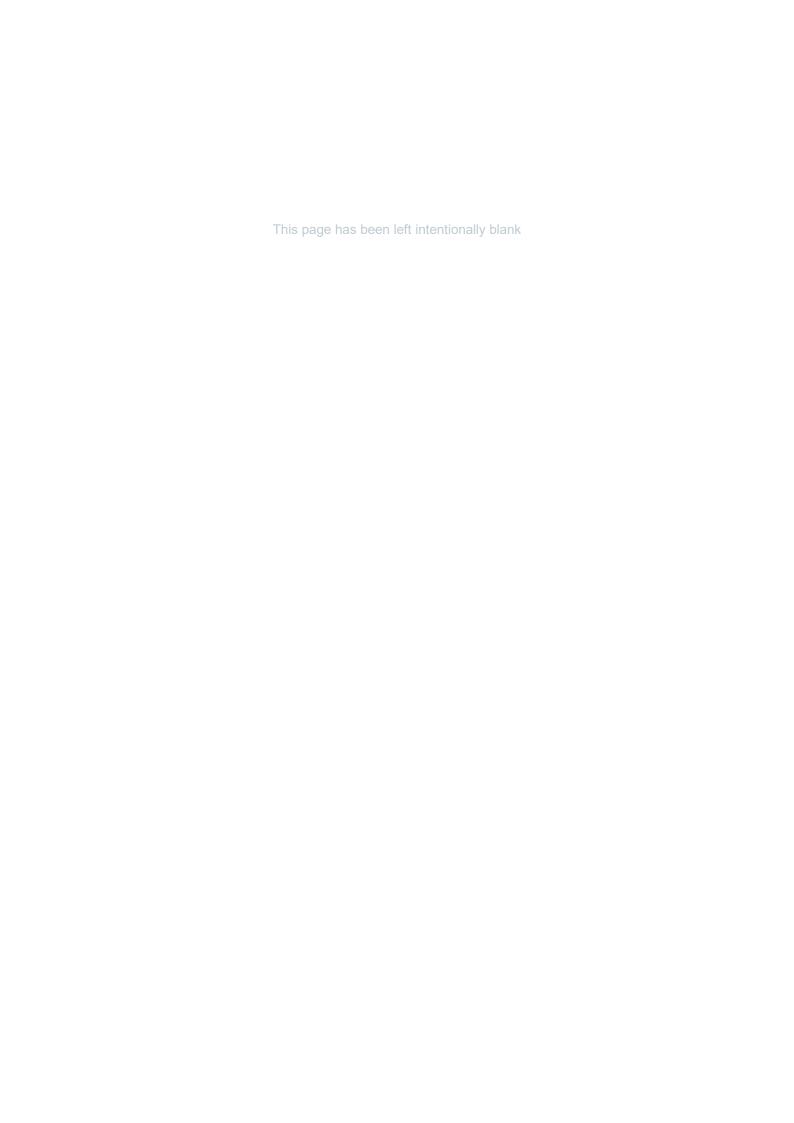
Depending on the circumstances this hazardous materials awareness training may include:

- The purpose of the training;
- The health risks of hazardous materials;
- The types, uses and likely occurrence of hazardous materials on site, in plant and/or equipment in the workplace;
- The trainee's roles and responsibilities for hazmat management;
- Where the asbestos and hazardous materials register is located and how it can be accessed;
- The timetable for removal of hazmat from the workplace;
- The processes and procedures to be followed to prevent exposure, including exposure from any accidental release of hazmat into the workplace;
- Where applicable, the correct use of maintenance and control measures, protective equipment and work methods to minimise the risks from hazmat, limit the exposure of workers and limit the spread of hazmat outside any work area;
- The National Exposure Standard (NES) and control levels for hazmat; and
- The purpose of any air monitoring or health surveillance that may occur.

Should any further suspect asbestos and/or hazmat become evident during future disturbance/ refurbishment works which have not been addressed in this report, Tetra Tech should be contacted immediately so that a WHS consultant can confirm the status of the suspect material/s.

Tetra Tech is able to assist with all aspects of Risk Management for removal of asbestos and other hazardous materials resulting from these findings

Appendix A: Asbestos and Hazardous Materials Register



| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--------------------------|----------|----------------------------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| External | GF / Adjacent Clinical Information Department Entrance / Awning | Fibre Cement Sheeting | Asbestos | A10610 | Chrysotile Asbestos Detected | Non-Friable | 20 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 1 |
| External | GF / All Areas / Eaves, Throughout | Fibre Cement Sheeting | Asbestos | Previously Sampled WS-05 | Chrysotile Asbestos Detected | Non-Friable | 40 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 2 |
| External | GF / Gable End, Site Office Entrance, Roof | Fibre Cement Sheeting | Asbestos | Previously Sampled WS-05.1 | Chrysotile Asbestos Detected | Non-Friable | 8 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 3 |
| External | GF / All Areas / Infill Panel, Above windows, Throughout | Fibre Cement Sheeting | Asbestos | A10606 | Chrysotile Asbestos Detected | Non-Friable | 20 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 4 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|------------------------------|----------|----------------------------------|---|-------------|----------|-----------|----------------|--|--|---------|
| External | GF / Infill Panel, Adjacent Site Office Roller Door, Above Window | Fibre Cement Sheeting | Asbestos | Previously Sampled WS-05.2 | Chrysotile Asbestos Detected | Non-Friable | 3 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 5 |
| External | GF / Southwest, Between Bricks, Adjacent Doctors Parking Space | Construction Joint Mastic | Asbestos | A10608 | No Asbestos Detected | - | 4 m | - | - | - | - | 6 |
| External | GF / All Areas / Walkway Between Palliative Storage and Emergency, Below Window | Construction Joint Mastic | Asbestos | A10609 | No Asbestos Detected | - | 20 m | - | - | - | - | 7 |
| External | GF / Fire Hydrant Pump Room / Fire Hydrant | Gasket Material | Asbestos | A10607 | No Asbestos Detected | - | 4 Units | - | - | - | - | 8 |
| External | GF / Palliative Care Equipment Room / Wall Lining, Roller door | Fibre Cement Sheeting | Asbestos | A10605 | No Asbestos Detected | - | 8 m² | - | - | - | - | 9 |
| External | GF / Room 1040, Old Coal Bunker / Floor, Throughout | Fibre Cement Debris | Asbestos | A10612 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 20 m² | Poor | Medium | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions as soon as reasonably practicable by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. Restrict access in the interim. | 10 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-----------------------------------|----------|---|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| External | GF / Room 1040, Old Coal Bunker / Wall Lining, Southeast | Fibre Cement Sheeting | Asbestos | A10613 | Chrysotile Asbestos Detected | Non-Friable | 15 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 11 |
| External | GF / Workshop Entrance / Wall Lining | Fibre Cement Sheeting | Asbestos | A10610.1 | Chrysotile Asbestos Detected | Non-Friable | 6 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 12 |
| Internal | GF / 1044, Painters Room / Access Hatch, Central | Fibre Cement Sheeting | Asbestos | A10614 | No Asbestos Detected | - | 1 m² | - | - | - | - | 13 |
| Internal | GF / 1044, Painters Room / Electrical Distribution Board DB18, Adjacent Roller Door | Internal Electrical Components | Asbestos | 754- NTLEN347071- 1maintenance Workshop 493A3 | Suspected Asbestos | Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Not sampled - Live electrical hazard. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| Internal | GF / Dryer Room / Wall Lining | Fibre Cement Sheeting | Asbestos | A10615.1 | No Asbestos Detected | - | 12 m² | - | - | - | - | 15 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--|----------|---------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Kitchen / Wall Lining, Hallway to Painters Shop | Fibre Cement Sheeting | Asbestos | A10615 | No Asbestos Detected | - | 10 m² | - | - | - | - | 16 |
| Internal | GF / Kitchenette / Pipework, Central | Lagging | Asbestos | A27968.1 | Amosite Asbestos Detected | Friable | 3 m | Stable | Low | Prior to refurbishment or demolition | Remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 17 |
| Internal | GF / Laundry / Floor covering, Throughout | Vinyl Floor Tiles (grey with white specs) | Asbestos | A10616.2 | Chrysotile Asbestos Detected | Non-Friable | 60 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 18 |
| Internal | GF / Laundry / Floor Covering, Throughout | Vinyl Floor Tiles (grey with white specs, large squares) | Asbestos | A10616 | Chrysotile Asbestos Detected | Non-Friable | 60 m² | Poor | Medium | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 19 |
| Internal | GF / Laundry / Floor Covering, Throughout | Vinyl Floor Tiles (grey with white specs, large squares) - Painted green | Asbestos | A10616.1 | Chrysotile Asbestos Detected | Non-Friable | 38 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 20 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|--|----------|---------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Laundry / Floor Covering, Various Throughout | Vinyl Floor Tiles (khaki green with white specs) | Asbestos | A10617 | Chrysotile Asbestos Detected | Non-Friable | 6 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 21 |
| Internal | GF / Laundry / High Level Surfaces, Throughout | Dust | Asbestos | A27969 | No Asbestos Detected | - | 150 m² | - | - | - | - | 22 |
| Internal | GF / Laundry / Pipework, Central | Gasket Material | Asbestos | A27971 | Chrysotile Asbestos Detected | Non-Friable | 4 Units | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 23 |
| Internal | GF / Laundry / Pipework, Central | Gasket Material | Asbestos | A27970 | Chrysotile Asbestos Detected | Non-Friable | 2 Units | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 24 |
| Internal | GF / Laundry / Pipework, North East | Gasket Material | Asbestos | A27970.1 | Chrysotile Asbestos Detected | Non-Friable | 2 Units | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant | 25 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-----------------------------------|----------|---|------------------------------------|-------------|----------|-----------|----------------|--|--|---------|
| | | | | | | | | | | | State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| Internal | GF / Laundry / Pipework, Southwest | Gasket Material | Asbestos | A27972 | Chrysotile Asbestos Detected | Non-Friable | 3 Units | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 26 |
| Internal | GF / Laundry / Pipework, Throughout | Lagging | Asbestos | A27968 | Amosite Asbestos Detected | Friable | 150 m | Fair | Medium | Prior to refurbishment or demolition | Restrict access and remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 27 |
| Internal | GF / Linen Loading Dock / Wall lining, Southeast | Fibre Cement Sheeting | Asbestos | A10620 | No Asbestos Detected | - | 10 m² | - | - | - | - | 28 |
| Internal | GF / Main Switchboard Room / Electrical Distribution Board 1 | Internal Electrical Components | Asbestos | 754- NTLEN347071- 1maintenance Workshop 493A5 | Suspected Asbestos | Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Not sampled - Live electrical hazard. Confirm Status and remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 29 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------------------|----------|---|---|-------------|----------|-----------|----------------|--|--|---------|
| Internal | GF / Main Switchboard Room / Electrical Distribution Board 1, Central | Compressed Bituminous Panel | Asbestos | 754- NTLEN347071- 1maintenance Workshop 493A5.1 | Suspected Asbestos | Non-Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Not sampled - Live electrical hazard. Remove under controlled non- friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 30 |
| Internal | GF / Main Workshop Area / Ceiling Space, All Surfaces, Throughout | Dust | Asbestos | A27975 | No Asbestos Detected | - | 40 m² | - | - | - | - | 31 |
| Internal | GF / Main Workshop Area / Ceiling Space, Central | Lagging (metal encased material) | Asbestos | 754- NTLEN347071- 1maintenance Workshop 493A8 | Suspected Asbestos | Friable | 10 m | Fair | Medium | Prior to refurbishment or demolition | Not sampled - Limited access to ceiling space. Restrict access and remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 32 |
| Internal | GF / Main Workshop Area / Entrance Adjacent Toilet, Wall Lining | Fibre Cement Sheeting | Asbestos | A27973 | No Asbestos Detected | - | 10 m² | - | - | - | - | 33 |
| Internal | GF / Maintenance Office / Ceiling Lining, Throughout | Fibre Cement Sheeting | Asbestos | A27974.1 | Chrysotile and Amosite Asbestos Detected | Non-Friable | 20 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 34 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------------|----------|---------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Maintenance Office / Floor Covering, Throughout | Vinyl Floor Tiles (yellow) | Asbestos | A27978 | Chrysotile Asbestos Detected | Non-Friable | 15 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 35 |
| Internal | GF / Maintenance Office / Floor Covering, Various Throughout | Vinyl Floor Tiles (red) | Asbestos | A27976 | Chrysotile Asbestos Detected | Non-Friable | 2 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 36 |
| Internal | GF / Maintenance Office / Floor Covering, Various Throughout | Vinyl Floor Tiles (blue) | Asbestos | A27977 | Chrysotile Asbestos Detected | Non-Friable | 2 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 37 |
| Internal | GF / Painters Shop / Ceiling Space, Throughout | Dust | Asbestos | A27836 | No Asbestos Detected | - | 100 m² | - | - | - | - | 38 |
| Internal | GF / Painters Shop / Pipework Penetration, Northeast Adjacent Generator | Lagging | Asbestos | A27968.3 | Amosite Asbestos Detected | Friable | 4 Units | Fair | Medium | Prior to refurbishment or demolition | Remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 39 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------------|----------|---------------|---|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Palliative Care Storage Loading Dock / Ceiling lining, Throughout | Fibre Cement Sheeting | Asbestos | A10605.2 | No Asbestos Detected | - | 20 m² | - | - | - | - | 40 |
| Internal | GF / Palliative Care Storage Loading Dock / Floor Covering, Throughout | Vinyl Sheet (white) | Asbestos | A10619 | No Asbestos Detected | - | 20 m² | - | - | - | - | 41 |
| Internal | GF / Palliative Care Storage Loading Dock / Floor Covering, Throughout | Compressed Cement Sheeting | Asbestos | A10618 | No Asbestos Detected | - | 30 m² | - | - | - | - | 42 |
| Internal | GF / Palliative Care Storage Loading Dock / Wall lining, Throughout | Fibre Cement Sheeting | Asbestos | A10605.1 | No Asbestos Detected | - | 20 m² | - | - | - | - | 43 |
| Internal | GF / Room 1021 & 1022 / Ceiling Lining, Throughout | Fibre Cement Sheeting | Asbestos | A27974.2 | Chrysotile and Amosite Asbestos Detected | Non-Friable | 30 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 44 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|---|------------|---------------|---|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Room 1032, Toilet / Ceiling, Throughout | Fibre Cement Sheet | Asbestos | A27974.3 | Chrysotile and Amosite Asbestos Detected | Non-Friable | 6 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 45 |
| Internal | GF / Room 1032, Toilet / Floor Covering, Throughout | Vinyl Floor Tiles (grey with white specs) | Asbestos | A10611 | Chrysotile Asbestos Detected | Non-Friable | 10 m² | Poor | Medium | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 46 |
| Internal | GF / Room 1034, Storage / Packer/Ceiling Lining, South West | Fibre Cement Sheeting | Asbestos | A27974 | Chrysotile and Amosite Asbestos Detected | Non-Friable | 10 m | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 47 |
| External | GF / All Areas / Ceiling lining, Adjacent Clinical Information Department Entrance | White Paint | Lead Paint | L22335 | Lead Detected (0.14% w/w) | - | 20 m² | Fair | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 48 t |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|------------|---------------|--------------------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| External | GF / All Areas / Doors & Frames, Throughout | Purple (Light) Paint | Lead Paint | L22336 | Lead Detected (0.04% w/w) | - | 40 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 49 |
| External | GF / Roof, Throughout | Brown (Dark) Paint | Lead Paint | L18423 | Lead Detected (0.22% w/w) | - | 400 m² | Fair | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 50 t |
| Internal | GF / All Areas / Wall Lining, Throughout | White Paint | Lead Paint | L22342.1 | Lead Detected (0.04% w/w) | - | 100 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 51 |
| Internal | GF / Painters Shop / Wall Lining, Throughout | White Paint | Lead Paint | L22342 | Lead Detected (0.04% w/w) | - | 60 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 52 |
| Internal | GF / Room 1032, Toilet / Wall lining, Throughout | White Paint | Lead Paint | L22341 | Lead Detected (<0.005% w/w) | - | 20 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 53 |

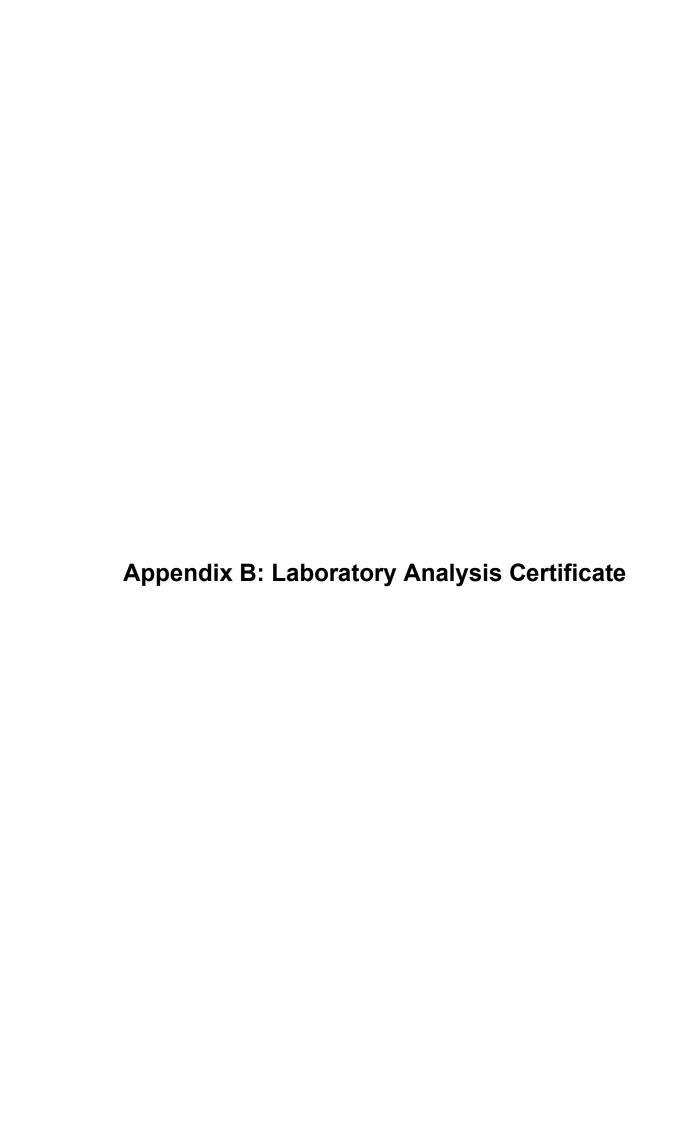
| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|------------------------------|-----------|---|---------------------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| Internal | GF / All Areas / Laundry, High Level Surfaces, Throughout | Dust | Lead Dust | L22387 | Lead Detected (270 mg/kg) | - | 130 m² | Poor | Low | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 54 |
| Internal | GF / Painters Shop / Ceiling Space, Throughout | Dust | Lead Dust | L22386 | Lead Detected (220mg/kg) | - | 100 m² | Poor | Low | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 55 |
| External | GF / All Areas / Walkway Between Palliative Storage and Emergency, Below Window | Construction Joint Mastic | SMF | A10609.1 | SMF Detected | - | 20 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 56 |
| Internal | GF / 1044, Painters Room / Ceiling Space | Insulation Batts | SMF | 754- NTLEN347071- 1maintenance Workshop 493S3 | Suspected SMF | - | 100 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 57 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|---------------------------------|--------|---|------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / 1044, Painters Room / Ceiling Space, Pipework | Insulation Material | SMF | 754- NTLEN347071- 1maintenance Workshop 493S4 | Suspected SMF | - | 20 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 58 |
| Internal | GF / 1044, Painters Room / Ceiling Space, Sarking | Insulation Material | SMF | 754- NTLEN347071- 1maintenance Workshop 493S5 | Suspected SMF | - | 200 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 59 |
| Internal | GF / Kitchen / Hot Water Heater, Above Sink | Internal Insulation Material | SMF | 754- NTLEN347071- 1maintenance Workshop 493S1 | Suspected SMF | - | 1 Unit | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 60 |
| Internal | GF / Kitchenette / Hot Water Heater, Adjacent Entry | Internal Insulation Material | SMF | 754- NTLEN347071- 1maintenance Workshop 493S2 | Suspected SMF | - | 1 Unit | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 61 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|--------|---|------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / Laundry / Insulation Batts, On Top of Office Ceiling | Insulation Material | SMF | 754- NTLEN347071- 1maintenance Workshop 493S9 | Suspected SMF | - | 100 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 62 |
| Internal | GF / Main Workshop Area / Ceiling Space, All Surfaces, Throughout | Dust | SMF | A27975.1 | SMF Detected | - | 40 m² | - | Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 63 |
| Internal | GF / Main Workshop Area / Ceiling Space, Pipework, Central | Insulation Material | SMF | 754- NTLEN347071- 1maintenance Workshop 49386 | Suspected SMF | - | 10 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 64 |
| Internal | GF / Main Workshop Area / Pillow Insulation, Cable Penetration, East | Insulation Material | SMF | 754- NTLEN347071- 1maintenance Workshop 493S8 | Suspected SMF | - | 4 Units | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 65 |
| Internal | GF / Painters Shop / Ceiling Space, Throughout | Dust | SMF | A27836.1 | SMF Detected | - | 100 m² | - | Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 6 66 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|--------|---|------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / Palliative Care Storage Loading Dock / Floor Covering, Throughout | Vinyl Sheet (white) | SMF | A10619.1 | SMF Detected | - | 20 m² | - | Very Low | | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 67 |
| Internal | GF / Room 1034, Storage / Sarking, Roof Lining | Insulation Material | SMF | 754- NTLEN347071- 1maintenance Workshop 49387 | Suspected SMF | - | 30 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 68 |
| Internal | GF / Laundry / Fluorescent Light Fitting, Throughout | Capacitor(s) | PCB | 754- NTLEN347071- 1Maintenance Workshop 493P2 | Suspected PCB | - | 10 Units | - | Very Low | - | PCB-containing capacitors are unlikely to be present due to age and appearance of light fittings. Confirm PCB status prior to refurbishment or demolition works. | 69 |
| Internal | GF / Painters Shop / Ceiling Space, Stored Item, Fluorescent Light Fitting | Capacitor(s) | PCB | 754- NTLEN347071- 1Maintenance Workshop 493P1 | Suspected PCB | - | 20 Units | - | Very Low | - | PCB-containing capacitors are suspected due to age & appearance of electrical fittings. Remove and dispose of in accordance with the Polychlorinated Biphenyls Management Plan, Revised Edition April 2003. | 70 |
| External | GF / All Areas / Air conditioner, Various throughout | Unknown Refrigerant | ODS | 754- NTLEN347071- 1Maintenance | Non ODS Refrigerant | - | 4 Units | - | - | - | Suspected negative due to age and appearance. | 71 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------------------|-----------|---|------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| | | | | Workshop 493O3 | | | | | | | | |
| External | GF / Roof / Air Conditioning Unit, Central | R404A Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- 1Maintenance Workshop 493O1 | Non ODS Refrigerant | - | 1 Unit | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 72 |
| Internal | GF / Kitchen / Air Conditioner, Adjacent Sink | Unknown Refrigerant | ODS | 754- NTLEN347071- 1Maintenance Workshop 493O2 | Non ODS Refrigerant | - | 1 Unit | - | - | - | Suspected negative due to age and appearance. | 73 |
| External | GF / Subfloor | - | No Access | - | - | - | - | - | - | - | No access hatch present or accessible at time of inspection. No or limited access potential hazardous materials present within inaccessible areas | 74 |







Bulk Identification Report

Job No: 754-NTLEN347071-1 Bulk ID Report Cessnock Hospital Maintenance 16072024

Client: NSW Health Infrastructure

Client Address: 1 Reserve Rd, St Leonards NSW 2065

Contact: Les Palma

Date Sampled:

E-mail: Les.Palma@turntown.com

05-07-2024

Date Analysed: 16-17/07/2024

Date Authorised: 18-07-2024
Sampled By: Ben McCann

Site: Cessnock Hospital, 24 View St, Cessnock, NSW

NATA

Accredited for compliance with ISO/IEC 17025 - Testing
Accreditation No:2220
Corporate Site No:16909

Please note: Where you have provided the samples for analysis, Tetra Tech Coffey Pty Ltd does not take any responsibility for the quality of such samples. This report relates exclusively to the samples analysed by Tetra Tech Coffey Pty Ltd and as such only the samples submitted or collected for analysis have been considered in presenting these results. The data and results contained in this report are not representative of the site, product or source material as a whole. Tetra Tech Coffey Pty Ltd does not make any warranty or representation in relation to the site, product or source material as a whole. If you suspect any material to contain asbestos, then you must immediately stop the works and activities at the site or in respect of the materials and engage Tetra Tech Coffey Pty Ltd or another suitably trained asbestos hygienist to sample, assess or re-assess (as the case may be) the material suspected to contain asbestos.

Asbestos in Bulk Samples and Non-homogenous Material

Test Method: Tetra Tech Coffey Pty Ltd analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in

accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi-quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Tetra Tech Coffey Pty Ltd's NATA approved SOP

WILAB1 sample retention periods are set at 1 month for all samples from the date of analysis.

Analysed At: Tetra Tech Coffey Pty Ltd Laboratory, Level 20, Tower B, Citadel Towers 799 Pacific Highway Chatswood NSW 2067

Total Samples: 28

Approved Identifier
Panika Wongchanda
Approved Signatory
Matthew Tang

| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|--|-----------------|---|
| A10605 | External, GF, All Areas, Wall lining, Palliative care equipment room, Roller door, Fibre Cement Sheeting - White painted beige layered fibre cement sheet material | 16 x 11 x 3 mm | No asbestos fibres detected Organic fibres detected |
| A10606 | External, GF, All Areas, Infill panel, above windows, Throughout, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 26 x 17 x 3 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A10607 | External, GF, All Areas, Fire hydrant pump room, Fire hydrant, Gasket Material - Black rubbery gasket material | 35 x 9 x 3 mm | No asbestos fibres detected Organic fibres detected |
| A10608 | External, GF, All Areas, Southwest, between brick, Adjacent doctor parking spot, Construction Joint Mastic - Black bituminous material | 13 x 9 x 7 mm | No asbestos fibres detected Organic fibres detected |
| A10609 | External, GF, All Areas, Walkway between palliative storage and Emergency, below window, Construction Joint Mastic - Black bituminous material | 27 x 12 x 6 mm | No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected |
| A10610 | External, GF, All Areas, Awning, Adjacent clinical information department entrance, Fibre Cement Sheeting - Blue painted beige layered fibre cement sheet material | 14 x 6 x 2 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A10611 | Internal, GF, Room 1032, Toilet, Floor covering, Throughout, Vinyl Floor Tiles (grey with white specs) A. Grey vinyl tile B. Amber adhesive | 61 x 58 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A10612 | External, GF, Room 1040, Old Coal Bunker, Floor, Throughout, Fibre Cement debris - Grey compressed fibre cement sheet material | 56 x 27 x 3 mm | Chrysotile (white asbestos) detected Amosite (brown asbestos) detected Crocidolite (blue asbestos) detected |

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| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|--|-----------------|--|
| A10613 | External, GF, Room 1040, Old Coal Bunker, Wall lining, Southeast, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 13 x 6 x 3 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A10614 | Internal, GF, 1044, Painters Room, Access hatch, Central, Fibre Cement Sheeting - Beige fibre cement sheet material | 18 x 12 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A10615 | Internal, GF, Kitchen, Wall lining, Hallway to painters shop, Fibre Cement Sheeting - Beige fibre cement sheet material | 18 x 5 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A10616 | Internal, GF, All Areas, Floor covering, Laundry, Throughout, Vinyl Floor Tiles (grey with white specs, large squares) A. Grey vinyl tile B. Amber adhesive | 120 x 52 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A10617 | Internal, GF, All Areas, Laundry, Floor covering, Various throughout, Vinyl Floor Tiles (khaki green with white specs) - A. Green vinyl tile B. Amber adhesive | 61 x 36 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A10618 | Internal, GF, Palliative Care Storage Loading Dock, Floor covering, Throughout, Compressed Cement Sheeting - Beige layered fibre cement sheet material | 16 x 13 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A10619 | Internal, GF, Palliative Care Storage Loading Dock, Floor covering, Throughout, Vinyl Sheet (white) - Grey vinyl sheet & fibrous backing material | 93 x 64 x 2 mm | No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected |
| A10620 | Internal, GF, All Areas, Linen loading dock, Wall lining, Southeast, Fibre Cement Sheeting - Beige fibre cement sheet material | 25 x 12 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A27836 | Internal, GF, Painters Shop, Ceiling Space, Throughout, Dust - Brown non-homogenous fibrous dust & debris | 4.2 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A27968 | Internal, GF, All Areas, Laundry, Pipework, Throughout, Lagging - White insulation material | 55 x 25 x 2 mm | Amosite (brown asbestos) detected |
| A27969 | Internal, GF, All Areas, Laundry, High level surfaces, Throughout, Dust - Brown non-homogenous fibrous dust & debris | 2.0 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A27970 | Internal, GF, All Areas, Laundry, Pipework, Central, Gasket Material - Beige fibrous gasket material | 33 x 20 x 2 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A27971 | Internal, GF, All Areas, Laundry, Pipework, Central, Gasket Material - Brown fibrous gasket material | 13 x 6 x 2 mm | Chrysotile (white asbestos) detected |
| A27972 | Internal, GF, All Areas, Laundry, Pipework, Southwest, Gasket Material - Brown fibrous gasket material | 17 x 9 x 3 mm | Chrysotile (white asbestos) detected |
| A27973 | Internal, GF, Main Workshop Area, Entrance adjacent toilet, Wall lining, Fibre Cement Sheeting - Beige fibre cement sheet material | 17 x 9 x 1 mm | No asbestos fibres detected Organic fibres detected |
| A27974 | Internal, GF, Room 1034, Storage, Packer/Ceiling lining, South west, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 29 x 19 x 3 mm | Chrysotile (white asbestos) detected Amosite (brown asbestos) detected Organic fibres detected |
| A27975 | Internal, GF, Main Workshop Area, Ceiling Space, All surfaces, Throughout, Dust - Brown non-homogenous fibrous dust & debris | 9.8 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |

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| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|---|-----------------|---|
| A27976 | Internal, GF, Maintenance Office, Floor covering, Various throughout, Vinyl Floor Tiles (red) A. Red vinyl tile B. Amber adhesive | 71 x 41 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A27977 | Internal, GF, Maintenance Office, Floor covering, Various throughout, Vinyl Floor Tiles (blue) A. Blue vinyl tile B. Amber adhesive | 96 x 52 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A27978 | Internal, GF, Maintenance Office, Floor covering, Throughout, Vinyl Floor Tiles (yellow) A. Orange vinyl tile B. Amber adhesive | 58 x 36 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |

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Envirolab Services Pty Ltd ABN 37 112 535 645

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 356694

| Client Details | |
|----------------|---|
| Client | Tetra Tech Coffey Pty Ltd |
| Attention | Ben McCann |
| Address | Level 20, Tower B, Citadel Tower, 799 Pacific Hwy, Chatswood, NSW, 2067 |

| Sample Details | |
|--------------------------------------|--|
| Your Reference | 754-NTLEN34707-1, Cessnock Hospital Survey |
| Number of Samples | 5 Paint, 2 Dust |
| Date samples received | 16/07/2024 |
| Date completed instructions received | 16/07/2024 |

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 | 23/07/2024 | | | | | | |
| Date of Issue | 23/07/2024 | | | | | | |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full. | | | | | | | |
| Accredited for compliance with ISO | Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * | | | | | | |

Results Approved By

Giovanni Agosti, Group Technical Manager Loren Bardwell, Development Chemist **Authorised By**

Nancy Zhang, Laboratory Manager



| Lead in Paint | | | | | | |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference | | 356694-1 | 356694-2 | 356694-3 | 356694-4 | 356694-5 |
| Your Reference | UNITS | L18423 | L22335 | L22336 | L22341 | L22342 |
| Date Sampled | | 05/07/2024 | 05/07/2024 | 05/07/2024 | 05/07/2024 | 05/07/2024 |
| Type of sample | | Paint | Paint | Paint | Paint | Paint |
| Date prepared | - | 17/07/2024 | 17/07/2024 | 17/07/2024 | 17/07/2024 | 17/07/2024 |
| Date analysed | - | 18/07/2024 | 18/07/2024 | 18/07/2024 | 18/07/2024 | 18/07/2024 |
| Lead in paint | %w/w | 0.22 | 0.14 | 0.04 | <0.005 | 0.04 |

| Lead (dust) | | | |
|----------------|-------|------------|------------|
| Our Reference | | 356694-6 | 356694-7 |
| Your Reference | UNITS | L22386 | L22387 |
| Date Sampled | | 05/07/2024 | 05/07/2024 |
| Type of sample | | Dust | Dust |
| Date prepared | - | 23/07/2024 | 23/07/2024 |
| Date analysed | - | 23/07/2024 | 23/07/2024 |
| Lead | mg/kg | 220 | 270 |

| Method ID | Methodology Summary |
|--------------------|--|
| Metals-020 | Determination of various metals by ICP-AES. |
| Metals-020/021/022 | Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS. |

Envirolab Reference: 356694 Page | 4 of 9

Revision No: R00

| QUALITY CONTROL: Lead in Paint | | | | | | Duplicate | | | Spike Recovery % | |
|--------------------------------|-------|-------|--------------------|------------|---|------------|------------|-----|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date prepared | - | | | 23/07/2024 | 5 | 17/07/2024 | 17/07/2024 | | 23/07/2024 | |
| Date analysed | - | | | 23/07/2024 | 5 | 18/07/2024 | 18/07/2024 | | 23/07/2024 | |
| Lead in paint | %w/w | 0.005 | Metals-020/021/022 | <0.005 | 5 | 0.04 | 0.074 | 60 | 98 | |

| QUALITY CONTROL: Lead (dust) | | | | Duplicate | | | Spike Recovery % | | | |
|------------------------------|-------|-----|------------|------------|------|------|------------------|------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date prepared | - | | | 23/07/2024 | [NT] | | [NT] | [NT] | 23/07/2024 | |
| Date analysed | - | | | 23/07/2024 | [NT] | | [NT] | [NT] | 23/07/2024 | |
| Lead | mg/kg | 1 | Metals-020 | <1 | [NT] | | [NT] | [NT] | 98 | |

Envirolab Reference: 356694

Revision No: R00

| 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 | | | | |

Envirolab Reference: 356694

Revision No: R00

| Quality Control | ol Definitions |
|------------------------------------|--|
| Blank | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples. |
| Duplicate | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable. |
| Matrix Spike | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| LCS (Laboratory Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample. |
| Surrogate Spike | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples. |

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

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

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

Envirolab Reference: 356694 Page | 8 of 9 R00

Report Comments

Lead in Paint:

- The RPD for duplicate results is accepted due to the inhomogeneous nature of the sample.
 Repeat analysis was not possible due to the limited amount of sample available for testing.

Envirolab Reference: 356694 Page | 9 of 9

Revision No: R00

ACCREDITATION

d for compliance with 180/IEC 17025.





AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref: ASET63483/66663 / 1 - 8
Your ref: 17,1624 - Cessnock Hospital - Workshops Laundry
NATA Accreditation No: 14484

29 March 2018

Practical Environmental Solutions PO Box 167 Mayfield NSW 2304

Attn: Mr Tony Milligan

Dear Tony

Asbestos Identification

This report presents the results of eight samples, forwarded by Practical Environmental Solutions on 29 March 2018, for analysis for asbestos.

1.Introduction: Eight samples forwarded were examined and analysed for the presence of asbestos.

Methods: The samples were examined under a Stereo Microscope and selected fibres were analysed.

by Polarized Light Microscopy in conjunction with Dispersion Staining method(Australian Standard AS 4964 - 2004 and Safer Environment Method 1 as the supplementary

work instruction) (Qualitative Analysis only).

Results: Sample No. 1. ASET63483 / 66663 / 1. WS01 - Rear awning/verandah (Laundry).

Approx dimensions 2.0 cm x 1.0 cm x 0.5 cm

The sample consisted of a fragment of a fibre cement material.

Chrysotile asbestos and Amosite asbestos detected.

Sample No. 2. ASET63483 / 66663 / 2. WS02 - VFT's (9x9).

Approx dimensions 15.0 cm x 10.0 cm x 0.3 cm The sample consisted of a fragment of a hard floor tile.

Chrysotile asbestos detected.

Sample No. 3. ASET63483 / 66663 / 3. WS03 - VFT's (30x30cm).

Approx dimensions 15.0 cm \times 15.0 cm \times 0.4 cm The sample consisted of a fragment of a hard floor tile.

Chrysotile asbestos detected.

Sample No. 4. ASET63483 / 66663 / 4. WS04 - Wall lining to loading dock (1013).

Approx dimensions 0.6 cm x 0.6 cm x 0.3 cm

The sample consisted of a fragment of a fibro plaster cement material containing organic

fibres.

No asbestos detected.

Sample No. 5. ASET63483 / 66663 / 5. WS05 - Ceiling lining to loading dock

(1013)

Approx dimensions 1.0 cm x 0.6 cm x 0.3 cm

The sample consisted of a fragment of a fibro plaster cement material containing organic

fibres.

Chrysotile asbestos detected.





Sample No. 6. ASET63483 / 66663 / 6. WS06 - Floor cover to loading dock. Approx dimensions 8.0 cm x 4.0 cm x 0.25 cm.

The sample consisted of fragments of a linoleum floor covering material having a backing fibrous material containing synthetic mineral fibres and organic fibres.

No asbestos detected.

Sample No. 7. ASET63483 / 66663 / 7. WS07 - Compressed floor loading dock. Approx dimensions $0.8~{\rm cm} \times 0.6~{\rm cm} \times 0.3~{\rm cm}$

The sample consisted of a fragment of a fibro plaster cement material containing organic fibres.

No asbestos detected.

Sample No. 8. ASET63483 / 66663 / 8. WS08 - VFT's to storeroom. Approx dimensions 15.0 cm x 12.0 cm x 0.3 cm. The sample consisted of a fragment of a hard floor tile. Chrysotile asbestos detected.

Analysed and reported by,

105-4

Nisansala Maddage. BSc(Hons), Grad Dip (Occ Hyg) Occupational Hygienist/Approved Identifier Approved Signatory NATA
WORLD RECOGNISES
ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

The results contained in this report relate only to the sample's submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample's total erepresentative. Results indicating "No asbestos detected" indicates a reporting limit specified in AS4964-2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No asbestos detected" as specified and recommended by AS4964-2004. Trace / respirable level asbestos will be reported only when detected.

Appendix C: Photographs





Line ID 1: External, GF, Adjacent Clinical Information Department Entrance, Awning, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 2: External, GF, All Areas, Eaves, Throughout, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 2.1: External, GF, All Areas, Eaves, Throughout, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 3: External, GF, Gable End, Site Office Entrance, Roof, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 4: External, GF, All Areas, Infill Panel, Above windows, Throughout, Fibre Cement Sheeting - Chrysotile Asbestos Detected



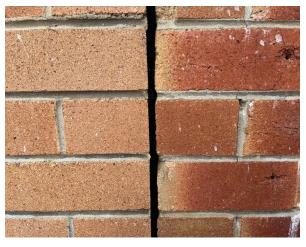
Line ID 4.1: External, GF, All Areas, Infill Panel, Above windows, Throughout, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 5: External, GF, Infill Panel, Adjacent Site Office Roller Door, Above Window, Fibre Cement Sheeting -Chrysotile Asbestos Detected



Line ID 6: External, GF, Southwest, Between Brick, Adjacent Doctor Parking Spot, Construction Joint Mastic -No Asbestos Detected



Line ID 6.1: External, GF, All Areas, Southwest, Between Brick, Adjacent Doctor Parking Spot, Construction Joint Mastic - No Asbestos Detected



Line ID 7: External, GF, All Areas, Walkway Between Palliative Storage and Emergency, Below Window, Construction Joint Mastic - No Asbestos Detected



Line ID 7.1: External, GF, All Areas, Walkway Between Palliative Storage and Emergency, Below Window, Construction Joint Mastic - No Asbestos Detected



Line ID 8: External, GF, Fire Hydrant Pump Room, Fire Hydrant, Gasket Material - No Asbestos Detected



Line ID 8.1: External, GF, Fire Hydrant Pump Room, Fire Hydrant, Gasket Material - No Asbestos Detected



Line ID 9: External, GF, Palliative Care Equipment Room, Wall Lining, Roller door, Fibre Cement Sheeting - No Asbestos Detected



Line ID 9.1: External, GF, Palliative Care Equipment Room, Wall Lining, Roller door, Fibre Cement Sheeting - No Asbestos Detected



Line ID 10: External, GF, Room 1040, Old Coal Bunker, Floor, Throughout, Fibre Cement Debris - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 10.1: External, GF, Room 1040, Old Coal Bunker, Floor, Throughout, Fibre Cement Debris -Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 11: External, GF, Room 1040, Old Coal Bunker, Wall Lining, Southeast, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 12: External, GF, Workshop Entrance, Wall Lining, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 12.1: External, GF, Workshop Entrance, Wall Lining, Fibre Cement Sheeting - Chrysotile Asbestos Detected



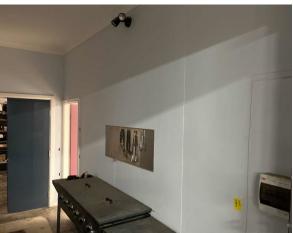
Line ID 13: Internal, GF, 1044, Painters Room, Access Hatch, Central, Fibre Cement Sheeting - No Asbestos Detected



Line ID 14: Internal, GF, 1044, Painters Room, Electrical Distribution Board DB18, Adjacent Roller Door, Internal Electrical Components - Suspected Asbestos



Line ID 15: Internal, GF, Dryer Room, Wall Lining, Fibre Cement Sheeting - No Asbestos Detected



Line ID 16: Internal, GF, Kitchen, Wall Lining, Hallway to Painters Shop, Fibre Cement Sheeting - No Asbestos Detected



Line ID 17: Internal, GF, Kitchenette, Pipework, Central, Lagging – Amosite Asbestos Detected



Line ID 18: Internal, GF, Laundry, Floor covering, Throughout, Vinyl Floor Tiles (grey with white specs) -Suspected Asbestos



Line ID 19: Internal, GF, Laundry, Floor Covering, Throughout, Vinyl Floor Tiles (grey with white specs, large squares) - Chrysotile Asbestos Detected



Line ID 19.1: Internal, GF, Laundry, Floor Covering, Throughout, Vinyl Floor Tiles (grey with white specs, large squares) - Chrysotile Asbestos Detected



Line ID 20: Internal, GF, Laundry, Floor Covering, Throughout, Vinyl Floor Tiles (grey with white specs, large squares) - Painted green - Chrysotile Asbestos Detected



Line ID 21: Internal, GF, Laundry, Floor Covering, Various Throughout, Vinyl Floor Tiles (khaki green with white specs) - Chrysotile Asbestos Detected



Line ID 21.1: Internal, GF, Laundry, Floor Covering, Various Throughout, Vinyl Floor Tiles (khaki green with white specs) - Chrysotile Asbestos Detected



Line ID 22: Internal, GF, Laundry, High Level Surfaces, Throughout, Dust - No Asbestos Detected



Line ID 23: Internal, GF, Laundry, Pipework, Central, Gasket Material - Chrysotile Asbestos Detected



Line ID 23.1: Internal, GF, Laundry, Pipework, Central, Gasket Material - Chrysotile Asbestos Detected



Line ID 24: Internal, GF, Laundry, Pipework, Central, Gasket Material - Chrysotile Asbestos Detected



Line ID 24.1: Internal, GF, Laundry, Pipework, Central, Gasket Material - Chrysotile Asbestos Detected



Line ID 25: Internal, GF, Laundry, Pipework, North East, Gasket Material - Chrysotile Asbestos Detected



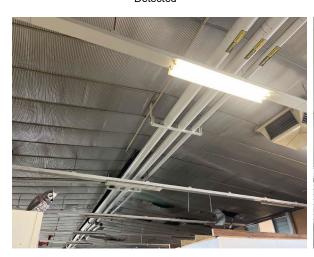
Line ID 26: Internal, GF, Laundry, Pipework, Southwest, Gasket Material - Chrysotile Asbestos Detected



Line ID 26.1: Internal, GF, Laundry, Pipework, Southwest, Gasket Material - Chrysotile Asbestos Detected



Line ID 27: Internal, GF, Laundry, Pipework, Throughout, Lagging - Amosite Asbestos Detected



Line ID 27.1: Internal, GF, Laundry, Pipework, Throughout, Lagging - Amosite Asbestos Detected



Line ID 28: Internal, GF, Linen Loading Dock, Wall lining, Southeast, Fibre Cement Sheeting - No Asbestos Detected



Line ID 29: Internal, GF, Main Switchboard Room, Electrical Distribution Board 1, Internal Electrical Components - Suspected Asbestos



Line ID 30: Internal, GF, Main Switchboard Room, Electrical Distribution Board 1, Central, Compressed Bituminous Panel - Suspected Asbestos



Line ID 31: Internal, GF, Main Workshop Area, Ceiling Space, All Surfaces, Throughout, Dust - No Asbestos Detected



Line ID 32: Internal, GF, Main Workshop Area, Ceiling Space, Central, Lagging (metal encased material) -Suspected Asbestos



Line ID 32.1: Internal, GF, Main Workshop Area, Ceiling Space, Central, Lagging (metal encased material) - Suspected Asbestos



Line ID 33: Internal, GF, Main Workshop Area, Entrance Adjacent Toilet, Wall Lining, Fibre Cement Sheeting - No Asbestos Detected



Line ID 33.1: Internal, GF, Main Workshop Area, Entrance Adjacent Toilet, Wall Lining, Fibre Cement Sheeting - No Asbestos Detected



Line ID 34: Internal, GF, Maintenance Office, Ceiling Lining, Throughout, Fibre Cement Sheeting - Chrysotile and Amosite Asbestos Detected



Line ID 35: Internal, GF, Maintenance Office, Floor Covering, Throughout, Vinyl Floor Tiles (yellow) -Chrysotile Asbestos Detected



Line ID 36: Internal, GF, Maintenance Office, Floor Covering, Various Throughout, Vinyl Floor Tiles (red) -Chrysotile Asbestos Detected



Line ID 37: Internal, GF, Maintenance Office, Floor Covering, Various Throughout, Vinyl Floor Tiles (blue) -Chrysotile Asbestos Detected



Line ID 38: Internal, GF, Painters Shop, Ceiling Space, Throughout, Dust - No Asbestos Detected



Line ID 39: Internal, GF, Painters Shop, Pipework Penetration, Northeast Adjacent Generator, Lagging -Amosite Asbestos Detected



Line ID 39.1: Internal, GF, Painters Shop, Pipework Penetration, Northeast Adjacent Generator, Lagging -Amosite Asbestos Detected



Line ID 40: Internal, GF, Palliative Care Storage Loading Dock, Ceiling lining, Throughout, Fibre Cement Sheeting - No Asbestos Detected



Line ID 41: Internal, GF, Palliative Care Storage Loading Dock, Floor Covering, Throughout, Vinyl Sheet (white) - No Asbestos Detected



Line ID 41.1: Internal, GF, Palliative Care Storage Loading Dock, Floor Covering, Throughout, Vinyl Sheet (white) - No Asbestos Detected



Line ID 42: Internal, GF, Palliative Care Storage Loading Dock, Floor Covering, Throughout, Compressed Cement Sheeting - No Asbestos Detected



Line ID 43: Internal, GF, Palliative Care Storage Loading Dock, Wall lining, Throughout, Fibre Cement Sheeting - No Asbestos Detected



Line ID 44: Internal, GF, Room 1021 & 1022, Ceiling Lining, Throughout, Fibre Cement Sheeting - Chrysotile and Amosite Asbestos Detected



Line ID 44.1: Internal, GF, Room 1021 & 1022, Ceiling Lining, Throughout, Fibre Cement Sheeting - Chrysotile and Amosite Asbestos Detected



Line ID 45: Internal, GF, Room 1032, Toilet, Ceiling, Throughout, Fibre Cement Sheet - Chrysotile and Amosite Asbestos Detected



Line ID 46: Internal, GF, Room 1032, Toilet, Floor Covering, Throughout, Vinyl Floor Tiles (grey with white specs) - Chrysotile Asbestos Detected



Line ID 46.1: Internal, GF, Room 1032, Toilet, Floor Covering, Throughout, Vinyl Floor Tiles (grey with white specs) - Chrysotile Asbestos Detected



Line ID 47: Internal, GF, Room 1034, Storage, Packer/Ceiling Lining, South West, Fibre Cement Sheeting - Chrysotile and Amosite Asbestos Detected



Line ID 48: External, GF, All Areas, Ceiling lining, Adjacent Clinical Information Department Entrance, White Paint - Lead Detected (0.14% w/w)



Line ID 48.1: External, GF, All Areas, Ceiling lining, Adjacent Clinical Information Department Entrance, White Paint - Lead Detected (0.14% w/w)



Line ID 49: External, GF, All Areas, Door & Frames, Throughout, Purple (Light) Paint - Lead Detected (0.04% w/w)



Line ID 51: Internal, GF, All Areas, Wall Lining, Throughout, White Paint - Lead Detected (0.04% w/w)



Line ID 52: Internal, GF, Painters Shop, Wall Lining, Throughout, White Paint - Lead Detected (0.04% w/w)



Line ID 53: Internal, GF, Room 1032, Toilet, Wall lining, Throughout, White Paint - Lead Detected (<0.005% w/w)



Line ID 53.1: Internal, GF, Room 1032, Toilet, Wall lining, Throughout, White Paint - Lead Detected (<0.005% w/w)



Line ID 54: Internal, GF, All Areas, Laundry, High Level Surfaces, Throughout, Dust - Lead Detected (270 mg/kg)



Line ID 55: Internal, GF, Painters Shop, Ceiling Space, Throughout, Dust - Lead Detected (220mg/kg)



Line ID 57: Internal, GF, 1044, Painters Room, Ceiling Space, Insulation Batts - Suspected SMF



Line ID 58: Internal, GF, 1044, Painters Room, Ceiling Space, Pipework, Insulation Material - Suspected SMF



Line ID 59: Internal, GF, 1044, Painters Room, Ceiling Space, Sarking, Insulation Material - Suspected SMF



Line ID 60: Internal, GF, Kitchen, Hot Water Heater, Above Sink, Internal Insulation Material - Suspected SMF



Line ID 61: Internal, GF, Kitchenette, Hot Water Heater, Adjacent Entry, Internal Insulation Material - Suspected SMF



Line ID 62: Internal, GF, Laundry, Insulation Batts, On Top of Office Ceiling, Insulation Material - Suspected SMF



Line ID 64: Internal, GF, Main Workshop Area, Ceiling Space, Pipework, Central, Insulation Material -Suspected SMF



Line ID 65: Internal, GF, Main Workshop Area, Pillow Insulation, Cable Penetration, East, Insulation Material - Suspected SMF



Line ID 68: Internal, GF, Room 1034, Storage, Sarking, Roof Lining, Insulation Material - Suspected SMF



Line ID 69: Internal, GF, Laundry, Fluorescent Light Fitting, Throughout, Capacitor(s) - Suspected PCB



Line ID 70: Internal, GF, Painters Shop, Ceiling Space, Stored Item, Fluorescent Light Fitting, Capacitor(s) -Suspected PCB



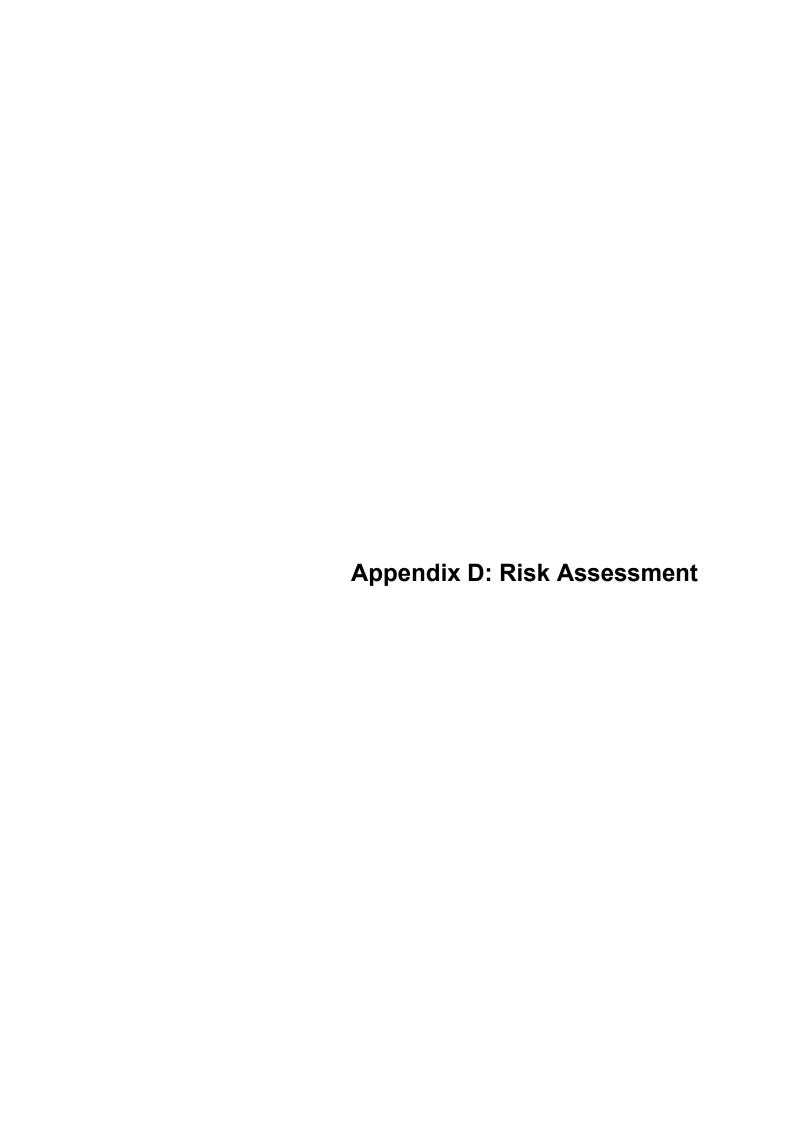
Line ID 71: External, GF, All Areas, Air conditioner, Various throughout, Unknown Refrigerant - Non ODS Refrigerant



Line ID 72: External, GF, Roof, Air Conditioning Unit, Central, R404A Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 73: Internal, GF, Kitchen, Air Conditioner, Adjacent Sink, Unknown Refrigerant - Non ODS Refrigerant





Risk Assessment

The risk assessment is explained, in the tables below. Our semi-quantitative risk assessment borrows elements from the materials risk assessment documented in HSG264: Asbestos: The survey guide – HSE and the priority risk assessment documented in HSG 227: A comprehensive guide to Managing Asbestos in premises – HSE, providing an element of quantification to the qualitative nature of site risk assessment.

Some of the elements of these well documented risk assessments have been omitted. Most notably the asbestos type from the materials risk assessment, as all types of asbestos are listed by the International Agency for Research on Cancer (IARC) as Type 1 Carcinogens. In addition, we have omitted the maintenance activity from HSG 277. The reason being that human risk factors associated with maintenance activities are often difficult to assess in-situ and require detailed input from the Person in Control of a Business of Undertaking (PCBU).

The risk assessment then takes into account all other Hazardous materials and utilizes similar algorithms to create a risk assessment for those materials.

The asbestos containing material risk score is a quantitative assessment determined by the sum of the scores based on the material assessment and the likelihood of exposure, i.e. Risk score = Material Score + Location Score (out of as possible 18).

An explanation of the material assessment and likelihood of exposure scores can be found in the tables below.

Table 2 - Risk Scores

| Overall Risk Assessment Score | Overall Risk Rating |
|-------------------------------|---------------------|
| 0 – 4 | Very Low |
| 5 – 8 | Low |
| 9 – 13 | Moderate |
| 14 – 18 | High |

Table 3 – Product Type (or debris)

| Examples of Materials - Asbestos | Examples of Materials - Hazmat | Score |
|--|--|-------|
| Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement etc.) | SMF composite products / insulation batts / woven products, Lead paint, Lead Compounds/Alloys/Products, Small PCB containing electrical capacitors | 1 |
| Asbestos insulating board, mill boards, other low- density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt | RCF woven/treated products, Lead paint flakes, Industrial PCB containing industrial transformers | 2 |
| Thermal insulation (e.g. pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing | RCF loose fill products, Lead dust, PCB containing oils in bulk storage, or uncontained spills. | 3 |

Table 4 – Extent of Damage or Deterioration

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Good condition: no visible damage | Good condition: no visible damage | 0 |
| Low damage: a few scratches or surface marks; broken edges on boards, tiles etc. | Low damage: a few scratches or surface marks; Peeling paint, Large paint flakes, Redundant PCB container in accessible area out of electrical product | 1 |
| Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres | Medium damage: significant breakage of materials or several small areas where material has been damaged, good condition sprays and insulation, large amounts of fine flaking paint and debris, Leaking PCB containing electrical equipment | 2 |
| High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris | High damage or delamination of materials. Visible debris, Lead dust, Pooling PCB oils, leaking oil bulk containers | 3 |

Table 5 – Surface type and treatment

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles | SMF/RCF composite products, insulation products sealed behind a non-friable barrier, Lead paints <0.1%w/w, lead, compounds/ alloys/ products <0.1%w/w lead, PCB oils <2mg/kg | 0 |
| Enclosed sprays and lagging, asbestos insulating board (with exposed face painted or encapsulated), asbestos cement sheets etc. | SMF/RCF woven and insulation products, Lead paints ≥0.1%w/w and <0.25%w/w, PCB ≥2mg/kg and <50mg/kg in oil | 1 |
| Unsealed asbestos insulating board, or encapsulated lagging and sprays | SMF/RCF heat-treated insulation products, Lead paints ≥0.25%w/w and <1.0%w/w, Lead dusts above recommended clearance indicator based on AS/NZS4361.2. PCB ≥50mg/kg and <10,000mg/kg in oil | 2 |
| Unsealed laggings and sprayed asbestos | Lead dusts a multiple of at least 5 times above recommended clearance indicator based on AS/NZS4361.2, Lead paint >1.0%, ≥10,000mg/kg in oil (10%w/w) | 3 |

 $^{^{\}rm 2}$ Lead and PCB refers specifically to the analysis result





Legislative Requirements

The assessment, and preparation of this report have been undertaken in accordance with the requirements of State/Territories legislation and standards outlined below.

State/Territories Relevant Legislation

| States & Territories | Acts | Legislation | |
|------------------------------------|---|--|--|
| Australian Capital Territory (ACT) | ACT Work Health & Safety Act 2011 | ACT Work Health & Safety Regulation 2011 | |
| New South Wales (NSW) | NSW Work Health & Safety Act 2011 | NSW Work Health & Safety Regulation 2017 | |
| Northern Territory (NT) | NT Work Health & Safety Act 2011 | NT Work Health & Safety Regulation 2017 | |
| Queensland (QLD) | QLD Work Health & Safety Act 2011 | QLD Work Health & Safety Regulation 2011 | |
| South Australia (SA) | SA Work Health & Safety Act 2012 SA Work Health & Safety Regulation 2012 | | |
| Tasmania (TAS) | Tasmanian Work Health & Safety Act 2012 | Tasmanian Work Health & Safety Regulation 2012 | |
| Victoria (VIC) | Victorian Occupational Health and Safety Act 2004 | Victorian Occupational Health and Safety Regulation 2017 | |
| Western Australia (WA) | Occupational Safety and Health Act 1984 | Occupational Safety and Health Regulation 1996 | |

States/Territories Code of Practices & Compliance Codes

| States & Territories | Codes of Practices & Compliance Codes | | | |
|------------------------------------|--|---|--|--|
| Australian Capital Territory (ACT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| New South Wales (NSW) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Northern Territory (NT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Queensland (QLD) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| South Australia (SA) | Code of Practice: How to manage and Control asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Tasmania (TAS) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Victoria (VIC) | Compliance Code: Managing Asbestos in Workplaces. | Compliance Code: Removing Asbestos in Workplaces. | | |

| Western Australia (WA) | Code of Practice for Management and Control of Asbestos in Workplaces [NOHSC:2018(2005)]. | Code of Practice for the Safe Removal of Asbestos [NOHSC:2002(2005)] |
|------------------------|--|--|
|------------------------|--|--|

The Victorian Compliance Codes align with the intent of the SafeWork Australia Model Code of Practice

Hazardous Materials Standard & Guidance Notes

| Hazardous Material | Guidance Notes |
|-------------------------------|---|
| Lead Based Paint | AS/NZS <i>4361.2:2017</i> Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings |
| Lead Containing Dust | National Environmental Protection Measure (NEPM) (NEPC,1999) as updated in 2013. |
| Synthetic Mineral Fibres | National Occupational Health and Safety Commission (1990) Synthetic Mineral Fibres; National Standard for Synthetic Mineral Fibres; and the National Code of Practice for the Safe Use of Synthetic Mineral Fibres |
| Polychlorinated Biphenyls | ANZECC (1997) Identification of PCB-containing Capacitors: An Information Booklet for Electricians and Electrical Contractors |
| Ozone Depleting Substances | UNEP (2001) Inventory of Trade Names of Chemical Products containing Ozone Depleting Substances and their Alternatives |

Each section is to be read in conjunction with the whole of this report, including the appendices.

Appendix F: Methodology



Methodology

Hazmat surveys are undertaken considering a risk management approach, in accordance with relevant statutory regulations and relevant Codes of Practice. A risk assessment was conducted based on a number of factors associated with hazmat identified during the survey and prioritised through Risk and Action Classifications.

The assessment involved the onsite investigation for the presence of ACM, SMF, LBP systems, LCD, PCB and ODS including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs). Information was collected from the site owners/occupiers/tenants where available on relevant issues pertaining to the site. Based on the available data and the status at the time of inspection, where items were identified, visual and/or analytical characterisation (where required) was performed and reported in **Appendix A: Asbestos and Hazardous Materials Register**.

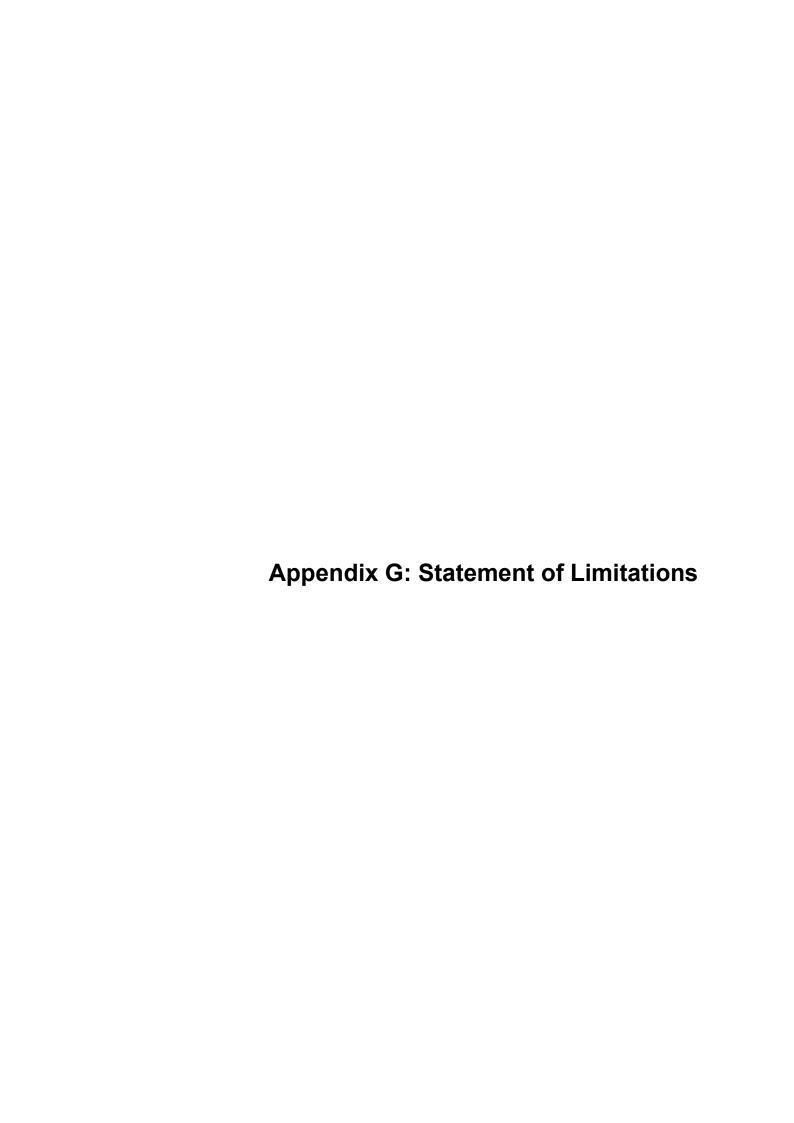
The assessment was conducted on the basis of the condition, type and location of the materials at the time of inspection. The scope of this investigation did not allow intrusive sampling techniques to be undertaken in all locations, and consequently the register may have limitations as a reference document for the purposes of renovation or demolition.

Only 'typical' suspected material occurrences are inspected and sampled. Sampling is undertaken on a representative basis, for example, the inspection of one fire door of the same type within the same area is undertaken (i.e. not every 'matching' fire door is examined), unless specifically instructed. Sample collection was performed in a non-destructive and non-invasive manner by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas contain asbestos materials may also be made and stated within the register.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with relevant Statutory Regulations, Codes of Practice and Tetra Tech's Work Instructions. Laboratories undertaking analysis are appropriately NATA certified for the analysis conducted. LCD thresholds are adopted from lead in soil thresholds found in the National Environment Protection Assessment of Site Contamination (ASC) Measure (1999) as amended in 2013 (NEPM).

The presence of asbestos in bulk samples is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques. Where asbestos was found to exist, a risk assessment was conducted on each item and a priority rating applied. This was conducted in accordance with the protocols described in **Appendix D: Risk Assessment**.

The asbestos and hazmat register is made up of relevant information gathered on site plus Tetra Tech's assessment of risk and assignment of action ratings. Reference to photographs, where available, is made in the register along with sample identification and analysis results, where applicable. Sample analysis results from previous assessments may be utilised and referenced in this register.



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Statement of Limitations

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

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

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client's instruction, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected.

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

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

The assessment brief is to identify every reasonably accessible hazmat. Reasonably accessible does not extend to searching for concealed hazmat beneath concrete encased structural beams or beneath concrete floors, behind another hazmat, or any other locations which, to access, would cause structural damage that could potentially destabilise the structure or the building. Given the way in which hazmat was used in the construction of buildings, some may only be detected during the course of subsequent demolition.

Any areas within the remit of the assessment but not described within the body of the report or in the hazmat register should be regarded by the client as un-assessed, and suspected as ACM potentially containing amphibole asbestos. A competent person should assess such areas before any work affecting them is carried out.

It must be assumed that materials visually assessed as presumed asbestos contain amphibole asbestos, unless sampled and analysed to prove otherwise. All areas where access was not possible must also be presumed to contain asbestos until proven otherwise.

Asbestos Containing Materials

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

Representative sampling is defined as one like sample per consistent material type, situation or item. In these instances, only one test sample will be collected for analytical confirmation and the results expressed as consistent and typical of the building. It is advisable to presume that materials similar to those positively identified as asbestos also contain asbestos until proved otherwise. It should not be presumed that materials similar in appearance to those tested and found not to contain asbestos also do not contain asbestos.

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

Notably, with some asbestos containing bulk material it can be very difficult, or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres

present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

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

Internal building materials should be assumed to contain asbestos until otherwise assessed.

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

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

The following limitations and restrictions to specific materials, installations and locations are commonly found during assessments of this nature, even if safe access can be provided through consultation with the client this inspection and report may not include the following areas:

- Risers / Ceiling, Floor or Wall Cavities, and Voids may be completely blocked or bricked in. Occasionally may only be detected if shown on building construction plans or during demolition
- Columns / Structural Elements these will not be penetrated if doing so will damage the stability
 of the building
- Roofs / External Areas these will not be checked if safe access cannot be achieved
- Confined Spaces these will not be checked if safe access cannot be achieved
- Restricted Access areas subject to restricted access will not be checked unless special arrangements have been made through the client within the remit of the assessment
- Live Plant or Electrical Installations live electrical installations including fuse boxes, electrical control cabinets, distribution panels etc. are not routinely checked for safety reasons. Electrical equipment will only be examined if it is locked off and an isolation certificate has been issued. Under exceptional circumstances, when arranged by the client, examination of non-isolated equipment may take place under the supervision of an electrician
- Live Refrigerators / Cold Rooms / Mechanical Equipment / Heater Units / Kilns may contain asbestos internally, which is not visible or accessible until the unit is isolated and dismantled

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

This report does not comment on, or present information regarding regulatory waste disposal practices and the associated waste disposal legislative requirements for hazardous materials. Prior to the disposal of any hazardous materials from site, clarification from the EPA should be sought by you, the client or the controller of the site (PCBU).

As part of the site inspection, materials may be suspected to be non-hazardous based on age and/or appearance. If any of these materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and sampling of this material, with analytical confirmation should be undertaken in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Materials including (but not limited to) e.g. fire retardants, vermiculite, sprayed coatings and insulations cannot be feasibly sampled in their entirety due to the heterogeneous nature of such materials. Sample results provided are only representative of the material sampled, and in that particular sample location. If any such materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and targeted area sampling, with analytical

confirmation should be undertake in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Should any other material suspected to contain asbestos or hazmat be found at the site, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.



NSW Health Infrastructure c/o Turner & Townsend Asbestos and Hazardous Materials Pre-Demolition Assessment

Pink Lady Volunteer Services and Dangerous Goods Buildings

Cessnock Hospital

Cessnock NSW 2325

23/08/2024



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Asbestos and Hazardous Materials Pre-Demolition Assessment

Prepared for.

NSW Health Infrastructure c/o Turner & Townsend

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Report Date: 23/08/2024

754-NTLEN347071-1 - Cessnock Hospital - HMDR - 02072024

Quality Information

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| Revision | Description | Date | Originator | Reviewer | Approver |
|----------|-------------|------------|------------|------------|--------------|
| R01 | Final | 23/08/2024 | Sam Crofts | Ben McCann | Aaron Holmes |

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Appendix A: Asbestos and Hazardous Materials Register

Appendix B: Laboratory Analysis Certificate

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Appendix F: Methodology

Appendix G: Statement of Limitations

Executive Summary

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Pink Lady Volunteer Services and Dangerous Goods Buildings located at Cessnock Hospital, Cessnock NSW 2325 (the site).

The purpose of the hazmat pre-demolition assessment was to identify and assess the health risk posed by hazmat, including asbestos containing materials (ACM) which may be encountered during future demolition/refurbishment works of the building. This is in order to meet the requirements of the relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes.

State/Territory legislation and industry guidance requires that information in this report is supplied on the understanding that the area surveyed is scheduled for demolition/refurbishment works, and that identified asbestos and other hazmat will be removed prior to, or as part of these works. Asbestos or other hazmat remaining in situ will need to be detailed in the asbestos and hazmat register and site-specific asbestos management plan designed to control the risks of exposure to hazardous materials.

The following hazardous building materials were identified at the time of the assessment:

| Property | Asbestos Containing Materials | | Containing Based Containing | Containing | Synthetic Mineral Fibre | Poly- chlorinated Biphenyls | Ozone Depleting Substances |
|--|-------------------------------------|---------|-----------------------------|------------|-------------------------------|-----------------------------------|----------------------------------|
| | Non- Friable | Friable | | | | | |
| Pink Lady Volunteer Services and Dangerous Goods Buildings | ✓ | ✓ | ✓ | - | - | - | - |

Full details of the material assessments can be located within **Appendix A: Asbestos and Hazardous Materials Register**.

Areas of No Access or Limited Access were present and are described in Section 2.2. It should be presumed that hazmat are present in these areas until further inspection can confirm or refute their presence.

A number of other recommendations were made in the body of this report which address the ongoing management of hazardous building materials at this site.

This executive summary must be read in conjunction with this entire report and the limitations contained therein.

1. Introduction

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Pink Lady Volunteer Services and Dangerous Goods Buildings located at Cessnock Hospital, Cessnock NSW 2325 (the site). Sam Crofts of Tetra Tech conducted the assessment on the 02/07/2024.

Note: The buildings were occupied at the time of the assessment. As such, destructive/intrusive sampling methods were not able to be used during the survey. A destructive hazardous materials survey must be carried out when the buildings have been vacated prior to any demolition or refurbishment works.

1.1. Site Information

The asbestos and hazardous materials pre-demolition assessment was undertaken of the Pink Lady Volunteer Services and Dangerous Goods buildings located at Cessnock Hospital, Cessnock NSW 2325 (the site).

| Table 1: Site Information | | | |
|---------------------------|--|--|--|
| Site: | Pink Lady Volunteer Services and Dangerous Goods Buildings, Cessnock Hospital, Cessnock NSW 2325 | | |
| Age (Circa): | 1950 | | |
| Site Description: | Hospital office and service buildings | | |

1.2. Objective and Scope of Works

The objectives/scope of the hazmat assessment was to:

- Identify the presence of the following confirmed and or suspected hazmat building materials within accessible areas of nominated building(s):
 - Asbestos Containing Materials (ACM);
 - Lead Based Paint (LBP);
 - Lead Containing Dust (LCD);
 - Synthetic Mineral Fibres (SMF);
 - Polychlorinated Biphenyls in fluorescent light capacitors (PCBs); and
 - Ozone Depleting Substances (ODSs).
- Collect samples of suspected ACM and/or LBP and LCD, for analysis by a NATA accredited laboratory;
- Visually determine the presence of SMF, PCB-containing light fittings and ODSs;
- Recommend risk management strategies to mitigate risks associated with ACM and other hazmat for removal and ongoing occupancy;
- Prepare a detailed assessment report in alignment with the requirements of relevant State/Territory Regulations, Compliance Codes, Codes of Practice and Guidance Notes, and
- Provide a copy of the assessment report in electronic (PDF) format to NSW Health Infrastructure.

2. Findings

The results of the asbestos and hazardous materials pre-demolition assessment are provided in a register format which is designed to provide readily available information about the presence of hazmat prior to demolition or refurbishment.

2.1. Assessment Findings

The findings of this assessment are presented in tabulated format, including building materials that have been photographed are depicted in **Appendix A: Asbestos and Hazardous Materials Register**.

The following significant key findings are noted:

2.1.1. Asbestos Containing Materials

| Location | Material Description | Risk Rating |
|--|-----------------------|-------------|
| External / GF / Subfloor Entrance / Pipework Lagging, Throughout | Lagging Debris | High |
| External / GF / Subfloor Entrance / Pipework Lagging, Throughout | Lagging | Medium |
| Internal / GF / Dining/Laundry / Floor Covering, Various Throughout | Vinyl Floor Tiles | Low |
| External / GF / All Areas / Infill Panels, Below Windows | Fibre Cement Sheet | Low |
| External / GF / Dangerous Goods Store / North and South, Eaves | Fibre Cement Sheeting | Low |
| External / GF / Dangerous Goods Store / West, Fascia | Fibre Cement Sheeting | Low |
| External / GF / Front Entrance / Infill Panel, Above Door 1001 | Fibre Cement Sheet | Low |
| External / GF / Front Entrance / Verandah, Awning | Fibre Cement Sheet | Low |
| Internal / GF / Dining/Laundry / Infill panel, Below Window | Fibre Cement Sheet | Low |
| Internal / GF / Document Storage Area / Floor Covering, Various Throughout | Vinyl Floor Tiles | Low |
| Internal / GF / Room 1004 / Manhole hatch cover | Fibre cement sheeting | Low |

2.1.2. Lead Based Paint

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| External / GF / All Areas / Roof & Metal Work, Throughout | Brown Paint | Low |
| External / GF / All Areas / Windows & frames, Throughout | Blue (Light) Paint | Low |
| External / GF / Dangerous Goods Store / Sliding Door | Purple Paint | Low |
| Internal / GF / All Areas / Windows & frames, Throughout | White Paint | Low |

2.1.3. Lead Containing Dust

No suspect lead containing dust identified at the time of the assessment.

2.1.4. Synthetic Mineral Fibres

No suspect SMF containing materials identified at the time of the assessment.

2.1.5. Polychlorinated Biphenyls

No suspect PCB containing capacitors identified at the time of the assessment.

2.1.6. Ozone Depleting Substances

No suspect ODS's identified at the time of the assessment.

2.2. Access Restrictions

Where no access or limited access areas have been identified it should be presumed that hazmat are present in these areas until further investigation can confirm or refute their presence.

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

2.2.1. No Access Areas

The following areas were not accessible at the time of the assessment:

- Within live electrics, plant and ductwork throughout.
- · Areas outside the scope of assessment.
- Ceiling space labelled as confined space.
- Sub-floor labelled as confined space.

2.2.2. Limited Access Areas

Access to the following areas was limited at the time of the assessment:

- Ceiling voids;
- Wall voids;
- Below floors;
- Behind ceramic wall tiles;
- Beneath floor coverings;
- Subfloor spaces;
- Risers;
- Occupied areas;

- Formwork to concrete slabs; and
- Roof.

3. Recommendations

The following recommendations are provided with respect to hazmat identified during the assessment of the site. This assessment only covers the parts of the site that have been accessed and been assessed in accordance with the approved scope.

3.1. Asbestos Containing Materials

The preference will always be to eliminate the asbestos hazards from the site and if it is practicable for the occupier to do so then asbestos removal should always be considered. ACM on site, which were found to be in a bonded and stable condition, may be managed in situ and periodically inspected if removal is not practicable.

If managed in situ, all identified or presumed ACM should be appropriately labelled, where possible, and regularly inspected to assess their condition and potential changes to health risk.

Prior to any demolition, partial demolition, renovation or refurbishment, ACM likely to be disturbed by those works should be removed in accordance with relevant codes of practices, compliance codes and legislation.

3.1.1. Asbestos Control Measures

- If the ACM is friable, in a poor/unstable condition and accessible with risk to health from exposure, immediate access restrictions should be applied, and removal is required as soon as practicable using a licensed contractor.
- If the ACM is friable, accessible but in a stable condition, removal is preferred. However, if removal is not immediately practicable, short-term control measures (i.e. restrict access, sealing, enclosure etc) may be employed until removal can be facilitated.
- If the ACM is non-friable and, in a poor/unstable condition, disturbance should be minimised. Removal or encapsulation may be appropriate controls. ACM which are found in localised areas and identified as damaged, consisting of small qualities of non-friable cement debris may not require the highest removal priority. The removal priority may be lowered due to a low risk of disturbance. Further confirmation can be obtained via asbestos fibre air monitoring where the result is found to be < 0.01 fibre/mL.
- For the instances above and further assessment of the risk, airborne fibre monitoring is recommended and can assist with decisions on the most appropriate, and urgency of, control measures.
- Where ACM is in a good, stable condition, ongoing maintenance and periodic inspection would be appropriate control measures.
- Remaining ACM identified or presumed should be appropriately labelled where possible. Those items should be regularly inspected to ensure they are not deteriorating and resulting in a potential risk to health.
- An asbestos management plan (AMP) should be created and maintained for all ACM that remain
 at the site to assist the persons conducting a business or undertaking (PCBU) with the
 management of these materials. The AMP must ensure that suitable control measures are
 implemented to prevent site personnel and others from being exposed to airborne asbestos fibres.
- Schedule periodic reassessment of ACM remaining on-site to monitor their aging/deterioration so that the PCBU can be alerted if any ACM require encapsulation or removal.

- Prior to any demolition or refurbishment works, all asbestos and hazardous materials identified and likely to be disturbed by demolition or refurbishment works should be removed in accordance with the legislative requirements and relevant codes of practice or compliance codes.
- During future demolition works, if any materials that are not referenced in this report and are suspected of containing asbestos are encountered, then works must cease and an asbestos hygienist should be notified to determine whether the material contains asbestos.

The recommendations, conclusions or stability of asbestos materials contained in this report shall not abrogate a person of their responsibility to work in accordance with statutory requirements, codes of practice, guidelines, material safety data sheets, work instructions or reasonable work practices.

3.2. Lead Based Paint

- Any works that are likely to disturb lead based paint surface should be undertaken in accordance with the Australian Standard (AS4361.2:2017), Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings.
- Prior to any disturbance of lead based paint a comprehensive risk assessment is to be conducted.
- Any loose and peeling lead based paint should be stabilised (using hand-held scrapers, drop cloths and wet misting where appropriate) and the paint chips disposed of as hazardous waste.
- Any remediation works that may generate dust or fumes (i.e. sanding, burning) must be performed under controlled conditions by a suitably resourced and experienced hazardous material/waste abatement contractor (e.g. a Class A licensed asbestos removal contractor).

3.3. Training

Information, instruction and training must be provided to workers, contractors and others who may come into contact with hazardous materials in a workplace, either directly or indirectly.

Depending on the circumstances this hazardous materials awareness training may include:

- The purpose of the training;
- The health risks of hazardous materials;
- The types, uses and likely occurrence of hazardous materials on site, in plant and/or equipment in the workplace;
- The trainee's roles and responsibilities for hazmat management;
- Where the asbestos and hazardous materials register is located and how it can be accessed;
- The timetable for removal of hazmat from the workplace;
- The processes and procedures to be followed to prevent exposure, including exposure from any accidental release of hazmat into the workplace:
- Where applicable, the correct use of maintenance and control measures, protective equipment and work methods to minimise the risks from hazmat, limit the exposure of workers and limit the spread of hazmat outside any work area;
- The National Exposure Standard (NES) and control levels for hazmat; and
- The purpose of any air monitoring or health surveillance that may occur.

Should any further suspect asbestos and/or hazmat become evident during future disturbance/ refurbishment works which have not been addressed in this report, Tetra Tech should be contacted immediately so that a WHS consultant can confirm the status of the suspect material/s.

Tetra Tech is able to assist with all aspects of Risk Management for removal of asbestos and other hazardous materials resulting from these findings

Appendix A: Asbestos and Hazardous Materials Register

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | |
|----------|--|--------------------------|----------|---------------|---|-------------|----------|-----------|----------------|--------------------------------------|---|---|
| External | GF / 1006 Entrance / Ceiling Lining, Throughout | Fibre Cement Sheeting | Asbestos | A27988 | No Asbestos Detected | - | 4 m² | - | - | - | _ | |
| External | GF / All Areas / Infill Panels, Below Windows | Fibre Cement Sheet | Asbestos | A10583.3 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 2 m² | Stable | Low | Prior to refurbishment or demolition | | |
| External | GF / All Areas / Windows, Throughout | Window Caulking | Asbestos | A27994 | No Asbestos Detected | - | 20 m | - | - | - | - | |
| External | GF / Dangerous Goods Store / North and South, Eaves | Fibre Cement Sheeting | Asbestos | A10583.1 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 5 m² | Stable | Low | Prior to refurbishment or demolition | | |
| External | GF / Dangerous Goods Store / West, Fascia | Fibre Cement Sheeting | Asbestos | A10583 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 3 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 5 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | |
|----------|--|-------------------------|----------|---------------|---|-------------|----------|-----------|----------------|--|---|----|
| External | GF / Front Entrance / Infill Panel, Above Door 1001 | Fibre Cement Sheet | Asbestos | A10583.4 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 1 m² | Stable | Low | Prior to refurbishment or demolition | | |
| External | GF / Front Entrance / Verandah, Awning | Fibre Cement Sheet | Asbestos | A10583.2 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 25 m² | Stable | Low | Prior to refurbishment or demolition | | |
| External | GF / Subfloor Entrance / New Style Sheet Vinyl, Various Throughout | Debris | Asbestos | A27992 | No Asbestos Detected | Non-Friable | 40 m² | - | - | - | - | |
| External | GF / Subfloor Entrance / Pipework Lagging, Throughout | Lagging | Asbestos | A27993 | Amosite Asbestos Detected | Friable | 40 m | Fair | Medium | Prior to refurbishment or demolition | | |
| External | GF / Subfloor Entrance / Pipework Lagging, Throughout | Lagging Debris | Asbestos | A27993.1 | Amosite Asbestos Detected | Friable | 40 m² | Poor | High | Prior to refurbishment or demolition | Restrict access and isolate area. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in | 10 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | |
|----------|---|-------------------------|----------|---------------------------------|------------------------------------|-------------|----------|-----------|----------------|--------------------------------------|---|----|
| | | | | | | | | | | | accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| External | GF / Verandah to Laundry / Ceiling Lining, Adjacent Toilet | Fibre Cement Sheet | Asbestos | A27991 | No Asbestos Detected | - | 4 m² | - | - | - | - | 11 |
| Internal | GF / Dining/Laundry / Floor covering, Adjacent Entrance | Sheet Vinyl (grey) | Asbestos | A27990 | No Asbestos Detected | - | 10 m² | - | - | - | - | 12 |
| Internal | GF / Dining/Laundry / Floor covering, Throughout | Sheet Vinyl (green) | Asbestos | A27989 | No Asbestos Detected | - | 16 m² | - | - | - | - | 13 |
| Internal | GF / Dining/Laundry / Floor Covering, Various Throughout | Vinyl Floor Tiles | Asbestos | Previously Sampled KT03.2 | Chrysotile Asbestos Detected | Non-Friable | 6 m² | Fair | Low | Prior to refurbishment or demolition | | |
| Internal | GF / Dining/Laundry / Infill panel, Below Window | Fibre Cement Sheet | Asbestos | A10583.5 | Chrysotile Asbestos Detected | Non-Friable | 1 m² | Stable | Low | Prior to refurbishment or demolition | KT01 - FCS sample number - waiting to see if i should update it or presume as positive. Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 15 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | |
|----------|---|--------------------------|------------|---------------------------------|------------------------------------|-------------|----------|-----------|----------------|---------------------------------------|---|----|
| Internal | GF / Document Storage Area / Floor covering, Adjacent entrance | Sheet Vinyl (grey) | Asbestos | A27990.1 | No Asbestos Detected | - | 25 m² | - | - | - | - | 16 |
| Internal | GF / Document Storage Area / Floor covering, Throughout Entry | Sheet Vinyl (brown) | Asbestos | A27987 | No Asbestos Detected | - | 14 m² | - | - | - | - | |
| Internal | GF / Document Storage Area / Floor Covering, Various Throughout | Vinyl Floor Tiles | Asbestos | Previously Sampled KT03.1 | Chrysotile Asbestos Detected | Non-Friable | 2 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 18 |
| Internal | GF / Room 1004 / Manhole hatch cover | Fibre cement sheeting | Asbestos | Previously Sampled KT01.1 | Chrysotile Asbestos Detected | Non-Friable | 0.5 m2 | - | Low | Prior to refurbishment or demolition. | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 19 |
| External | GF / All Areas / Roof & Metal Work, Throughout | Brown Paint | Lead Paint | L22320 | Lead Detected (0.29% w/w) | - | 100 m² | Fair | Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition | 20 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | |
|----------|---|-------------------------|------------|---------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|------|
| | | | | | | | | | | | works. Conduct a risk assessment to determine the level of remediation controls required. | |
| External | GF / All Areas / Windows & frames, Throughout | Blue (Light) Paint | Lead Paint | L22321 | Lead Detected (2.4% w/w) | - | 40 m² | Poor | Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 21 |
| External | GF / Dangerous Goods Store / Sliding Door | Purple Paint | Lead Paint | L18416 | Lead Detected (3.4% w/w) | - | 5 m² | Stable | Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 22 |
| Internal | GF / All Areas / Windows & frames, Throughout | White Paint | Lead Paint | L22332 | Lead Detected (0.34% w/w) | - | 25 m² | Stable | Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 23 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | |
|----------|---|-------------------------|------------|---------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|----|
| Internal | GF / Document Storage Area / Wall lining, Throughout | Cream Paint | Lead Paint | L22333 | Lead Detected (0.24% w/w) | - | 60 m² | Stable | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | |
| External | GF / Subfloor | - | No Access | - | - | - | - | - | - | - | Labelled as confined space. Visually inspected from access hatch only. No access to all areas of subfloor. No or limited access potential hazardous materials present within inaccessible areas | |
| Internal | GF / Ceiling Space | - | No Access | - | - | - | - | - | - | - | Labelled as confined space. No or limited access potential hazardous materials present within inaccessible areas | 26 |





Bulk Identification Report

Job No: 754-NTLEN347071-1 Bulk ID Report Cessnock Hospital Pink Lady Volunteer & Dangerous Goods 16072024

Client: NSW Health Infrastructure

Client Address: 1 Reserve Rd, St Leonards NSW 2065

Contact: Les Palma

E-mail: Les.Palma@turntown.com

Ben McCann

Date Sampled: 02-07-2024 **Date Analysed:** 16-07-2024

Date Authorised: 18-07-2024

Sampled By:

Site: Cessnock Hospital, 24 View St, Cessnock, NSW

NATA

Please note: Where you have provided the samples for analysis, Tetra Tech Coffey Pty Ltd does not take any responsibility for the quality of such samples. This report relates exclusively to the samples analysed by Tetra Tech Coffey Pty Ltd and as such only the samples submitted or collected for analysis have been considered in presenting these results. The data and results contained in this report are not representative of the site, product or source material as a whole. Tetra Tech Coffey Pty Ltd does not make any warranty or representation in relation to the site, product or source material as a whole. If you suspect any material to contain asbestos, then you must immediately stop the works and activities at the site or in respect of the materials and engage Tetra Tech Coffey Pty Ltd or another suitably trained asbestos hygienist to sample, assess or re-assess (as the case may be) the material suspected to contain asbestos.

Asbestos in Bulk Samples and Non-homogenous Material

Test Method: Tetra Tech Coffey Pty Ltd analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in

accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi-quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Tetra Tech Coffey Pty Ltd's NATA approved SOP

WILAB1 sample retention periods are set at 1 month for all samples from the date of analysis.

Analysed At: Tetra Tech Coffey Pty Ltd Laboratory, Level 20, Tower B, Citadel Towers 799 Pacific Highway Chatswood NSW 2067

Total Samples: 9

 Approved Identifier
 Approved Signatory

 Matthew Tang
 Matthew Tang

| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|--|-----------------|---|
| A10583 | External, GF, Dangerous Goods Store, West, Fascia, Fibre Cement Sheeting - White painted grey compressed fibre cement sheet material | 37 x 10 x 5 mm | Chrysotile (white asbestos) detected Amosite (brown asbestos) detected Crocidolite (blue asbestos) detected |
| A27987 | Internal, GF, Document Storage Area, Floor covering, Throughout entry, Sheet Vinyl (brown) - Beige vinyl sheet material & amber adhesive with attached organic matted material | 62 x 55 x 4 mm | No asbestos fibres detected Organic fibres detected |
| A27988 | External, GF, 1006 Entrance, Ceiling Lining, Throughout, Fibre Cement Sheeting - Beige fibre cement sheet material | 11 x 9 x 3 mm | No asbestos fibres detected Organic fibres detected |
| A27989 | Internal, GF, Dining/Laundry, Floor covering, Throughout, Sheet Vinyl (green) - Green vinyl sheet material & amber adhesive | 74 x 62 x 3 mm | No asbestos fibres detected |
| A27990 | Internal, GF, Dining/Laundry, Floor covering, Adjacent entrance, Sheet Vinyl (grey) - Grey vinyl sheet material & amber adhesive | 70 x 64 x 3 mm | No asbestos fibres detected |
| A27991 | External, GF, Verandah To Laundry, Ceiling lining, Adjacent toilet, Fibre Cement Sheet - Cream painted beige fibre cement sheet material | 16 x 14 x 3 mm | No asbestos fibres detected Organic fibres detected |
| A27992 | External, GF, Subfloor, New style sheet vinyl, Various throughout, Debris - Grey vinyl sheet & amber adhesive | 59 x 42 x 3 mm | No asbestos fibres detected |
| A27993 | External, GF, Subfloor, Pipework Lagging, Throughout, Lagging - White loose fibrous insulation material | 22 x 18 x 2 mm | Amosite (brown asbestos) detected |

18-07-2024 Page 1 of 2

| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|--|-----------------|-----------------------------|
| A27994 | External, GF, All Areas, Windows, Throughout, Window Caulking - White painted beige hardened mastic material | 55 x 20 x 8 mm | No asbestos fibres detected |

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Envirolab Services Pty Ltd ABN 37 112 535 645

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 356691

| Client Details | |
|----------------|---|
| Client | Tetra Tech Coffey Pty Ltd |
| Attention | Ben McCann |
| Address | Level 20, Tower B, Citadel Tower, 799 Pacific Hwy, Chatswood, NSW, 2067 |

| Sample Details | |
|--------------------------------------|--|
| Your Reference | 754-NTLEN347071-1 Cessnock Hospital Survey |
| Number of Samples | 5 Paint |
| Date samples received | 16/07/2024 |
| Date completed instructions received | 16/07/2024 |

Analysis Details

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

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

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

| Report Details | | |
|-------------------------------------|---|--|
| Date results requested by | 22/07/2024 | |
| Date of Issue | 22/07/2024 | |
| NATA Accreditation Number 2901. | This document shall not be reproduced except in full. | |
| Accredited for compliance with ISO/ | IEC 17025 - Testing. Tests not covered by NATA are denoted with * | |

Results Approved By

Giovanni Agosti, Group Technical Manager

Authorised By

Nancy Zhang, Laboratory Manager

Envirolab Reference: 356691 Revision No: R00



| Lead in Paint | | | | | | |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference | | 356691-1 | 356691-2 | 356691-3 | 356691-4 | 356691-5 |
| Your Reference | UNITS | L22320 | L22321 | L22332 | L22333 | L18416 |
| Date Sampled | | 02/07/2024 | 02/07/2024 | 02/07/2024 | 02/07/2024 | 02/07/2024 |
| Type of sample | | Paint | Paint | Paint | Paint | Paint |
| Date prepared | - | 17/07/2024 | 17/07/2024 | 17/07/2024 | 17/07/2024 | 10/07/2024 |
| Date analysed | - | 18/07/2024 | 18/07/2024 | 18/07/2024 | 18/07/2024 | 10/07/2024 |
| Lead in paint | %w/w | 0.29 | 2.4 | 0.34 | 0.24 | 3.2 |

Envirolab Reference: 356691 Revision No: R00

| Method ID | Methodology Summary |
|--------------------|--|
| Metals-020/021/022 | Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS. |

Envirolab Reference: 356691 Page | 3 of 6

Revision No: R00

| QUALITY CONTROL: Lead in Paint | | | Duplicate | | | Spike Recovery % | | | | |
|--------------------------------|-------|-------|--------------------|------------|---|------------------|------------|-----|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date prepared | - | | | 17/07/2024 | 2 | 17/07/2024 | 17/07/2024 | | 17/07/2024 | |
| Date analysed | - | | | 18/07/2024 | 2 | 18/07/2024 | 18/07/2024 | | 18/07/2024 | |
| Lead in paint | %w/w | 0.005 | Metals-020/021/022 | <0.005 | 2 | 2.4 | 2.0 | 18 | 101 | |

| QUALITY CONTROL: Lead in Paint | | | Duplicate | | | Spike Recovery % | | | | |
|--------------------------------|-------|-------|--------------------|-------|---|------------------|------------|-----|------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date prepared | - | | | | 5 | 10/07/2024 | 10/07/2024 | | | |
| Date analysed | - | | | | 5 | 10/07/2024 | 10/07/2024 | | | |
| Lead in paint | %w/w | 0.005 | Metals-020/021/022 | | 5 | 3.2 | 2.8 | 13 | | |
| | | | | | | | | | | |

Envirolab Reference: 356691
Revision No: R00

| Result Definiti | ons | | | |
|-----------------|---|--|--|--|
| NT | Not tested | | | |
| NA | Test not required | | | |
| INS | nsufficient 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 | | | |

Envirolab Reference: 356691

Revision No: R00

| Quality Contro | Quality Control Definitions | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|--|
| Blank | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples. | | | | | | | |
| Duplicate | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable. | | | | | | | |
| Matrix Spike | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. | | | | | | | |
| LCS (Laboratory Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample. | | | | | | | |
| Surrogate Spike | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples. | | | | | | | |

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

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

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

Envirolab Reference: 356691 Page | 6 of 6





AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

Our ref: ASET63880 / 67060 / 1 - 6 Your ref: 17.1624 - Records and Mortuary and Kitchen NATA Accreditation No: 14484

18 April 2018

Practical Environmental Solutions PO Box 167 Mayfield NSW 2304

Attn: Mr Tony Milligan

ACCREDITATION

Accredited for compliance with IND/IEC 17025.

Dear Tony

Asbestos Identification

This report presents the results of six samples, forwarded by Practical Environmental Solutions on 18 April 2018, for analysis for asbestos.

Hintroduction: Six samples forwarded were examined and analysed for the presence of asbestos.

Methods: The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (Australian Standard AS 4964 - 2004 and Safer Environment Method 1 as the

supplementary work instruction) (Qualitative Analysis only).

Sample No. 1. ASET63880 / 67060 / 1. KT01 - FFCS Eaves soffit to western 3. Results:

aspect.

Approx dimensions 0.75 cm x 0.45 cm x 0.15 cm

The sample consisted of a fragment of a fibro plaster cement material containing organic

Chrysotile asbestos detected.

Sample No. 2. ASET63880 / 67060 / 2. KT02 - Vermiculite spray to cafeteria ceiling.

Approx dimensions 3.5 cm x 2.0 cm x 0.3 cm

The sample consisted of fragments of a soft plaster material containing vermiculite like

material

No asbestos detected.

Sample No. 3. ASET63880 / 67060 / 3. KT0 3 - Cream VFTs to Cafeteria floor.

Approx dimensions 7.0 cm x 4.5 cm x 0.2 cm

The sample consisted of a fragment of a hard floor tile.

Chrysotile asbestos detected.

Sample No. 4. ASET63880 / 67060 / 4. KT04 - SE Verandah infill panels

Approx dimensions 0.35 cm x 0.25 cm x 0.1 cm

The sample consisted of a fragment of a fibre cement material.

Chrysotile asbestos detected.

Sample No. 5. ASET63880 / 67060 / 5. KT05 - Brown VFTs to Cafeteria. Approx dimensions 6.1 cm x 4.2 cm x 0.2 cm

The sample consisted of a fragment of a hard floor tile.

Chrysotile asbestos detected.



Asbestos Register Review & Update Cessnock Hospital - Mortuary, Kitchen and Records



Sample No. 6. ASET63880 / 67060 / 6. KT06 - Broadsheet vinyl floor covering. Approx dimensions $8.0~\mathrm{cm} \times 5.0~\mathrm{cm} \times 0.2~\mathrm{cm}$ The sample consisted of a fragment of a vinyl floor tile. No asbestos detected (An independent confirmatory analytical technique is advised due to the nature of the sample).

Analysed and reported by,

Cam SK

Chamath Annakkage. BSc Analyst / Approved Identifier

Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg) Occupational Hygienist / Approved Signatory Accredited for compliance with ISO/IEC 17025.

The results contained in this report relate only to the sample/s submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample/s is/are representative. Results indicating "No ashestos detected" indicates a reporting limit specified in AS4964-2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No ashestos detected" as specified and recommended by AS4964-2004. Trace / respirable level ashestos will be reported only when detected.

Appendix C: Photographs



Line ID 1: External, GF, 1006 Entrance, Ceiling Lining, Throughout, Fibre Cement Sheeting - No Asbestos Detected



Line ID 2: External, GF, All Areas, Infill Panels, Below Windows, Fibre Cement Sheet - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 2.1: External, GF, All Areas, Infill Panels, Below Windows, Fibre Cement Sheet - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 2.2: External, GF, All Areas, Infill Panels, Below Windows, Fibre Cement Sheet - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 3: External, GF, All Areas, Windows, Throughout, Window Caulking - No Asbestos Detected



Line ID 3.1: External, GF, All Areas, Windows, Throughout, Window Caulking - No Asbestos Detected



Line ID 4: External, GF, Dangerous Goods Store, North and South, Eaves, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 5: External, GF, Dangerous Goods Store, West, Fascia, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 6: External, GF, Front Entrance, Infill Panel, Above Door 1001, Fibre Cement Sheet - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 7: External, GF, Front Entrance, Verandah, Awning, Fibre Cement Sheet - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 8: External, GF, Subfloor Entrance, New Style Sheet Vinyl, Various Throughout, Debris - No Asbestos Detected



Line ID 9: External, GF, Subfloor Entrance, Pipework Lagging, Throughout, Lagging - Amosite Asbestos Detected



Line ID 9.1: External, GF, Subfloor Entrance, Pipework Lagging, Throughout, Lagging - Amosite Asbestos Detected



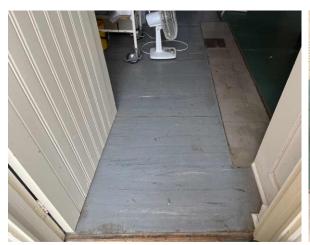
Line ID 10: External, GF, Subfloor Entrance, Pipework Lagging, Throughout, Lagging Debris - Amosite Asbestos Detected



Line ID 10.1: External, GF, Subfloor Entrance, Pipework Lagging, Throughout, Lagging Debris -Amosite Asbestos Detected



Line ID 11: External, GF, Verandah to Laundry, Ceiling Lining, Adjacent Toilet, Fibre Cement Sheet - No Asbestos Detected



Line ID 12: Internal, GF, Dining/Laundry, Floor covering, Adjacent Entrance, Sheet Vinyl (grey) - No Asbestos Detected



Line ID 13: Internal, GF, Dining/Laundry, Floor covering, Throughout, Sheet Vinyl (green) - No Asbestos Detected



Line ID 14: Internal, GF, Dining/Laundry, Floor Covering, Various Throughout, Vinyl Floor Tiles -Chrysotile Asbestos Detected



Line ID 14.1: Internal, GF, Dining/Laundry, Floor Covering, Various Throughout, Vinyl Floor Tiles - Chrysotile Asbestos Detected



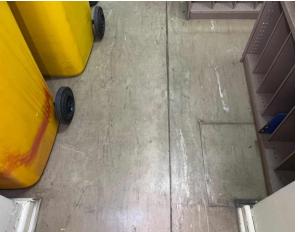
Line ID 15: Internal, GF, Dining/Laundry, Infill panel, Below Window, Fibre Cement Sheet - Chrysotile Asbestos Detected



Line ID 16: Internal, GF, Document Storage Area, Floor covering, Adjacent entrance, Sheet Vinyl (grey) - No Asbestos Detected



Line ID 17: Internal, GF, Document Storage Area, Floor covering, Throughout Entry, Sheet Vinyl (brown) - No Asbestos Detected



Line ID 17.1: Internal, GF, Document Storage Area, Floor covering, Throughout Entry, Sheet Vinyl (brown) - No Asbestos Detected



Line ID 18: Internal, GF, Document Storage Area, Floor Covering, Various Throughout, Vinyl Floor Tiles -Chrysotile Asbestos Detected



Line ID 20: External, GF, All Areas, Roof & Metal Work, Throughout, Brown Paint - Lead Detected (0.29% w/w)



Line ID 20.1: External, GF, All Areas, Roof & Metal Work, Throughout, Brown Paint - Lead Detected (0.29% w/w)



Line ID 21: External, GF, All Areas, Windows & frames, Throughout, Blue (Light) Paint - Lead Detected (2.4% w/w)



Line ID 21.1: External, GF, All Areas, Windows & frames, Throughout, Blue (Light) Paint - Lead Detected (2.4% w/w)



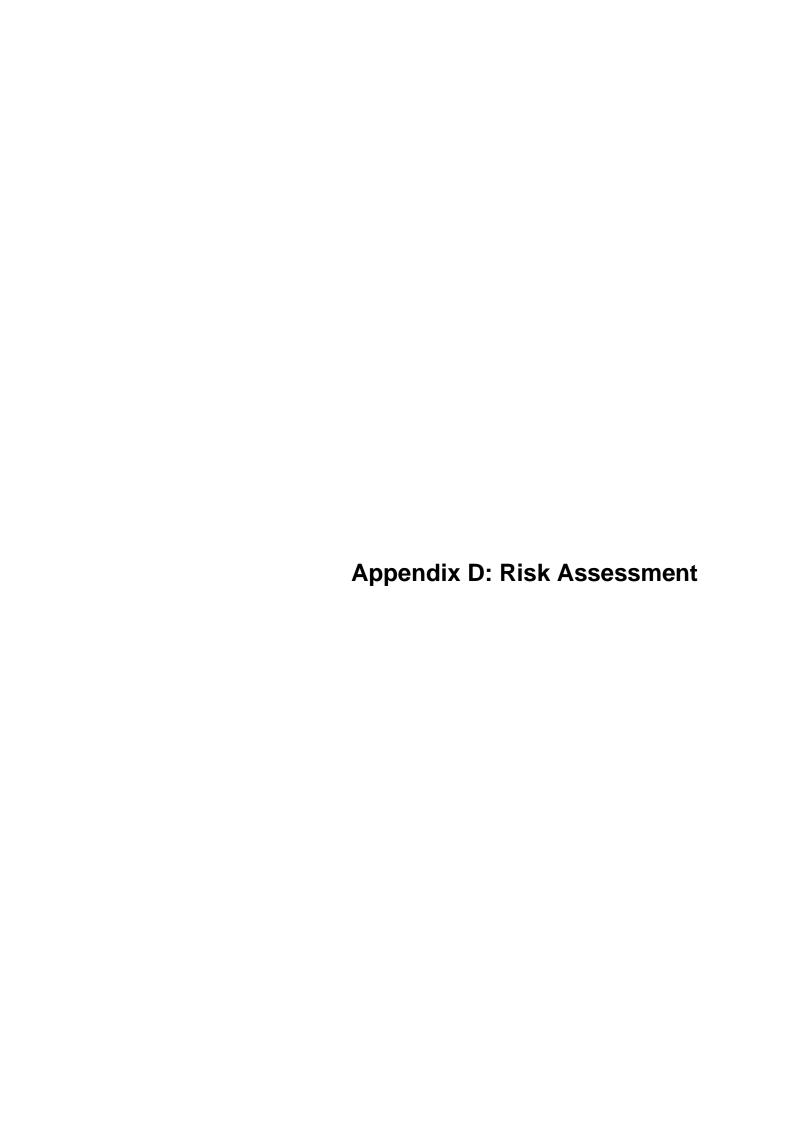
Line ID 22: External, GF, Dangerous Goods Store, Sliding Door, Purple Paint - Lead Detected (3.4% w/w)



Line ID 23: Internal, GF, All Areas, Windows & frames, Throughout, White Paint - Lead Detected (0.34% w/w)



Line ID 24: Internal, GF, Document Storage Area, Wall lining, Throughout, Cream Paint - Lead Detected (0.24% w/w)



Risk Assessment

The risk assessment is explained, in the tables below. Our semi-quantitative risk assessment borrows elements from the materials risk assessment documented in HSG264: Asbestos: The survey guide – HSE and the priority risk assessment documented in HSG 227: A comprehensive guide to Managing Asbestos in premises – HSE, providing an element of quantification to the qualitative nature of site risk assessment.

Some of the elements of these well documented risk assessments have been omitted. Most notably the asbestos type from the materials risk assessment, as all types of asbestos are listed by the International Agency for Research on Cancer (IARC) as Type 1 Carcinogens. In addition, we have omitted the maintenance activity from HSG 277. The reason being that human risk factors associated with maintenance activities are often difficult to assess in-situ and require detailed input from the Person in Control of a Business of Undertaking (PCBU).

The risk assessment then takes into account all other Hazardous materials and utilizes similar algorithms to create a risk assessment for those materials.

The asbestos containing material risk score is a quantitative assessment determined by the sum of the scores based on the material assessment and the likelihood of exposure, i.e. Risk score = Material Score + Location Score (out of as possible 18).

An explanation of the material assessment and likelihood of exposure scores can be found in the tables below.

Table 2 - Risk Scores

| Overall Risk Assessment Score | Overall Risk Rating |
|-------------------------------|---------------------|
| 0 – 4 | Very Low |
| 5 – 8 | Low |
| 9 – 13 | Moderate |
| 14 – 18 | High |

Table 3 – Product Type (or debris)

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|--|--|-------|
| Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement etc.) | SMF composite products / insulation batts / woven products, Lead paint, Lead Compounds/Alloys/Products, Small PCB containing electrical capacitors | 1 |
| Asbestos insulating board, mill boards, other low- density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt | RCF woven/treated products, Lead paint flakes, Industrial PCB containing industrial transformers | 2 |
| Thermal insulation (e.g. pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing | RCF loose fill products, Lead dust, PCB containing oils in bulk storage, or uncontained spills. | 3 |

Table 4 – Extent of Damage or Deterioration

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Good condition: no visible damage | Good condition: no visible damage | 0 |
| Low damage: a few scratches or surface marks; broken edges on boards, tiles etc. | Low damage: a few scratches or surface marks; Peeling paint, Large paint flakes, Redundant PCB container in accessible area out of electrical product | 1 |
| Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres | Medium damage: significant breakage of materials or several small areas where material has been damaged, good condition sprays and insulation, large amounts of fine flaking paint and debris, Leaking PCB containing electrical equipment | 2 |
| High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris | High damage or delamination of materials. Visible debris, Lead dust, Pooling PCB oils, leaking oil bulk containers | 3 |

Table 5 – Surface type and treatment

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles | SMF/RCF composite products, insulation products sealed behind a non-friable barrier, Lead paints <0.1%w/w, lead, compounds/ alloys/ products <0.1%w/w lead, PCB oils <2mg/kg | 0 |
| Enclosed sprays and lagging, asbestos insulating board (with exposed face painted or encapsulated), asbestos cement sheets etc. | SMF/RCF woven and insulation products, Lead paints ≥0.1%w/w and <0.25%w/w, PCB ≥2mg/kg and <50mg/kg in oil | 1 |
| Unsealed asbestos insulating board, or encapsulated lagging and sprays | SMF/RCF heat-treated insulation products, Lead paints ≥0.25%w/w and <1.0%w/w, Lead dusts above recommended clearance indicator based on AS/NZS4361.2. PCB ≥50mg/kg and <10,000mg/kg in oil | 2 |
| Unsealed laggings and sprayed asbestos | Lead dusts a multiple of at least 5 times above recommended clearance indicator based on AS/NZS4361.2, Lead paint >1.0%, ≥10,000mg/kg in oil (10%w/w) | 3 |

² Lead and PCB refers specifically to the analysis result



Legislative Requirements

The assessment, and preparation of this report have been undertaken in accordance with the requirements of State/Territories legislation and standards outlined below.

State/Territories Relevant Legislation

| States & Territories | Acts | Legislation |
|------------------------------------|--|--|
| Australian Capital Territory (ACT) | ACT Work Health & Safety Act 2011 | ACT Work Health & Safety Regulation 2011 |
| New South Wales (NSW) | NSW Work Health & Safety Act 2011 | NSW Work Health & Safety Regulation 2017 |
| Northern Territory (NT) | NT Work Health & Safety Act 2011 | NT Work Health & Safety Regulation 2017 |
| Queensland (QLD) | QLD Work Health & Safety Act 2011 | QLD Work Health & Safety Regulation 2011 |
| South Australia (SA) | SA Work Health & Safety Act 2012 | SA Work Health & Safety Regulation 2012 |
| Tasmania (TAS) | Tasmanian Work Health & Safety Act 2012 | Tasmanian Work Health & Safety Regulation 2012 |
| Victoria (VIC) | Victorian Occupational Health and Safety Act 2004 | Victorian Occupational Health and Safety Regulation 2017 |
| Western Australia (WA) | Occupational Safety and Health Act 1984 | Occupational Safety and Health Regulation 1996 |

States/Territories Code of Practices & Compliance Codes

| States & Territories | Codes of Practices | s & Compliance Codes |
|------------------------------------|--|---|
| Australian Capital Territory (ACT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| New South Wales (NSW) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Northern Territory (NT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Queensland (QLD) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| South Australia (SA) | Code of Practice: How to manage and Control asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Tasmania (TAS) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Victoria (VIC) | Compliance Code: Managing Asbestos in Workplaces. | Compliance Code: Removing Asbestos in Workplaces. |

| Western Australia (WA) | Code of Practice for Management and Control of Asbestos in Workplaces [NOHSC:2018(2005)]. | Code of Practice for the Safe Removal of Asbestos [NOHSC:2002(2005)] |
|------------------------|--|--|
|------------------------|--|--|

The Victorian Compliance Codes align with the intent of the SafeWork Australia Model Code of Practice

Hazardous Materials Standard & Guidance Notes

| Hazardous Material | Guidance Notes |
|-------------------------------|---|
| Lead Based Paint | AS/NZS <i>4361.2:2017</i> Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings |
| Lead Containing Dust | National Environmental Protection Measure (NEPM) (NEPC,1999) as updated in 2013. |
| Synthetic Mineral Fibres | National Occupational Health and Safety Commission (1990) Synthetic Mineral Fibres; National Standard for Synthetic Mineral Fibres; and the National Code of Practice for the Safe Use of Synthetic Mineral Fibres |
| Polychlorinated Biphenyls | ANZECC (1997) Identification of PCB-containing Capacitors: An Information Booklet for Electricians and Electrical Contractors |
| Ozone Depleting Substances | UNEP (2001) Inventory of Trade Names of Chemical Products containing Ozone Depleting Substances and their Alternatives |

Each section is to be read in conjunction with the whole of this report, including the appendices.

Appendix F: Methodology

Methodology

Hazmat surveys are undertaken considering a risk management approach, in accordance with relevant statutory regulations and relevant Codes of Practice. A risk assessment was conducted based on a number of factors associated with hazmat identified during the survey and prioritised through Risk and Action Classifications.

The assessment involved the onsite investigation for the presence of ACM, SMF, LBP systems, LCD, PCB and ODS including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs). Information was collected from the site owners/occupiers/tenants where available on relevant issues pertaining to the site. Based on the available data and the status at the time of inspection, where items were identified, visual and/or analytical characterisation (where required) was performed and reported in **Appendix A: Asbestos and Hazardous Materials Register**.

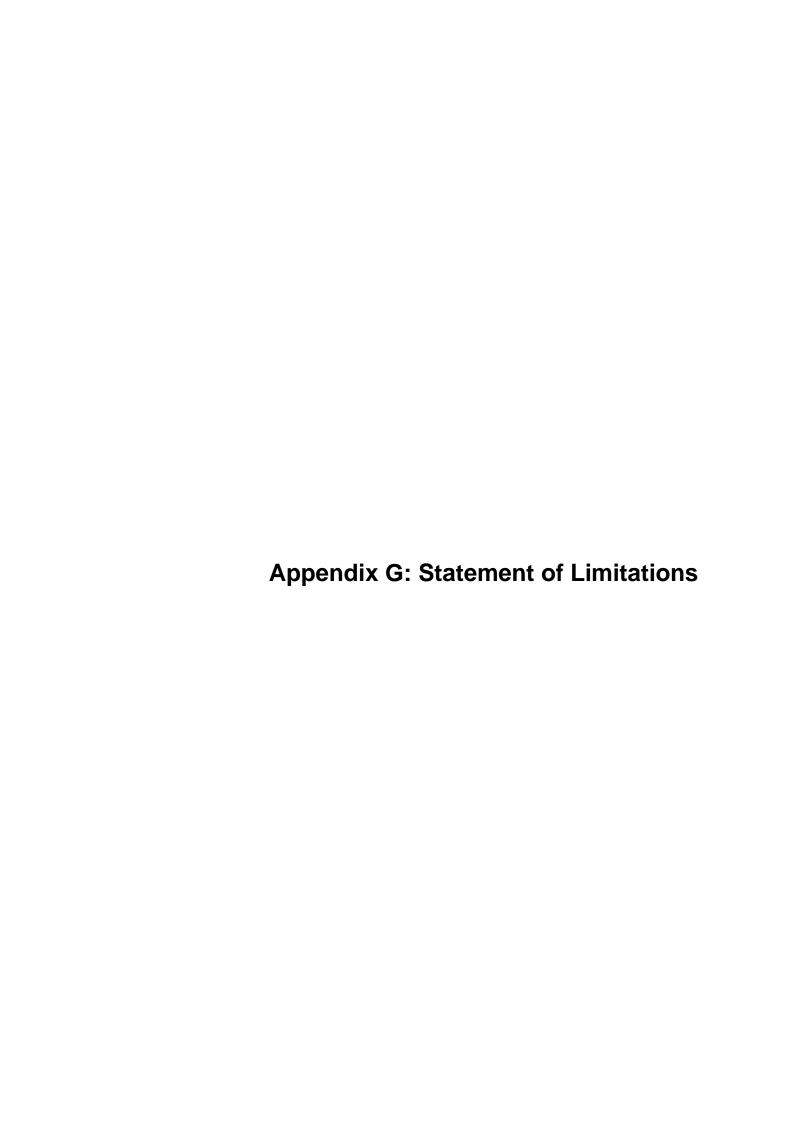
The assessment was conducted on the basis of the condition, type and location of the materials at the time of inspection. The scope of this investigation did not allow intrusive sampling techniques to be undertaken in all locations, and consequently the register may have limitations as a reference document for the purposes of renovation or demolition.

Only 'typical' suspected material occurrences are inspected and sampled. Sampling is undertaken on a representative basis, for example, the inspection of one fire door of the same type within the same area is undertaken (i.e. not every 'matching' fire door is examined), unless specifically instructed. Sample collection was performed in a non-destructive and non-invasive manner by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas contain asbestos materials may also be made and stated within the register.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with relevant Statutory Regulations, Codes of Practice and Tetra Tech's Work Instructions. Laboratories undertaking analysis are appropriately NATA certified for the analysis conducted. LCD thresholds are adopted from lead in soil thresholds found in the National Environment Protection Assessment of Site Contamination (ASC) Measure (1999) as amended in 2013 (NEPM).

The presence of asbestos in bulk samples is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques. Where asbestos was found to exist, a risk assessment was conducted on each item and a priority rating applied. This was conducted in accordance with the protocols described in **Appendix D: Risk Assessment**.

The asbestos and hazmat register is made up of relevant information gathered on site plus Tetra Tech's assessment of risk and assignment of action ratings. Reference to photographs, where available, is made in the register along with sample identification and analysis results, where applicable. Sample analysis results from previous assessments may be utilised and referenced in this register.



Statement of Limitations

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

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

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client's instruction, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected.

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

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

The assessment brief is to identify every reasonably accessible hazmat. Reasonably accessible does not extend to searching for concealed hazmat beneath concrete encased structural beams or beneath concrete floors, behind another hazmat, or any other locations which, to access, would cause structural damage that could potentially destabilise the structure or the building. Given the way in which hazmat was used in the construction of buildings, some may only be detected during the course of subsequent demolition.

Any areas within the remit of the assessment but not described within the body of the report or in the hazmat register should be regarded by the client as un-assessed, and suspected as ACM potentially containing amphibole asbestos. A competent person should assess such areas before any work affecting them is carried out.

It must be assumed that materials visually assessed as presumed asbestos contain amphibole asbestos, unless sampled and analysed to prove otherwise. All areas where access was not possible must also be presumed to contain asbestos until proven otherwise.

Asbestos Containing Materials

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

Representative sampling is defined as one like sample per consistent material type, situation or item. In these instances, only one test sample will be collected for analytical confirmation and the results expressed as consistent and typical of the building. It is advisable to presume that materials similar to those positively identified as asbestos also contain asbestos until proved otherwise. It should not be presumed that materials similar in appearance to those tested and found not to contain asbestos also do not contain asbestos.

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

Notably, with some asbestos containing bulk material it can be very difficult, or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres

present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

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

Internal building materials should be assumed to contain asbestos until otherwise assessed.

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

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

The following limitations and restrictions to specific materials, installations and locations are commonly found during assessments of this nature, even if safe access can be provided through consultation with the client this inspection and report may not include the following areas:

- Risers / Ceiling, Floor or Wall Cavities, and Voids may be completely blocked or bricked in. Occasionally may only be detected if shown on building construction plans or during demolition
- Columns / Structural Elements these will not be penetrated if doing so will damage the stability
 of the building
- Roofs / External Areas these will not be checked if safe access cannot be achieved
- Confined Spaces these will not be checked if safe access cannot be achieved
- Restricted Access areas subject to restricted access will not be checked unless special arrangements have been made through the client within the remit of the assessment
- Live Plant or Electrical Installations live electrical installations including fuse boxes, electrical control cabinets, distribution panels etc. are not routinely checked for safety reasons. Electrical equipment will only be examined if it is locked off and an isolation certificate has been issued. Under exceptional circumstances, when arranged by the client, examination of non-isolated equipment may take place under the supervision of an electrician
- Live Refrigerators / Cold Rooms / Mechanical Equipment / Heater Units / Kilns may contain asbestos internally, which is not visible or accessible until the unit is isolated and dismantled

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

This report does not comment on, or present information regarding regulatory waste disposal practices and the associated waste disposal legislative requirements for hazardous materials. Prior to the disposal of any hazardous materials from site, clarification from the EPA should be sought by you, the client or the controller of the site (PCBU).

As part of the site inspection, materials may be suspected to be non-hazardous based on age and/or appearance. If any of these materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and sampling of this material, with analytical confirmation should be undertaken in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Materials including (but not limited to) e.g. fire retardants, vermiculite, sprayed coatings and insulations cannot be feasibly sampled in their entirety due to the heterogeneous nature of such materials. Sample results provided are only representative of the material sampled, and in that particular sample location. If any such materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and targeted area sampling, with analytical

confirmation should be undertake in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Should any other material suspected to contain asbestos or hazmat be found at the site, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.



NSW Health Infrastructure c/o Turner & Townsend Asbestos and Hazardous Materials Pre-Demolition Assessment

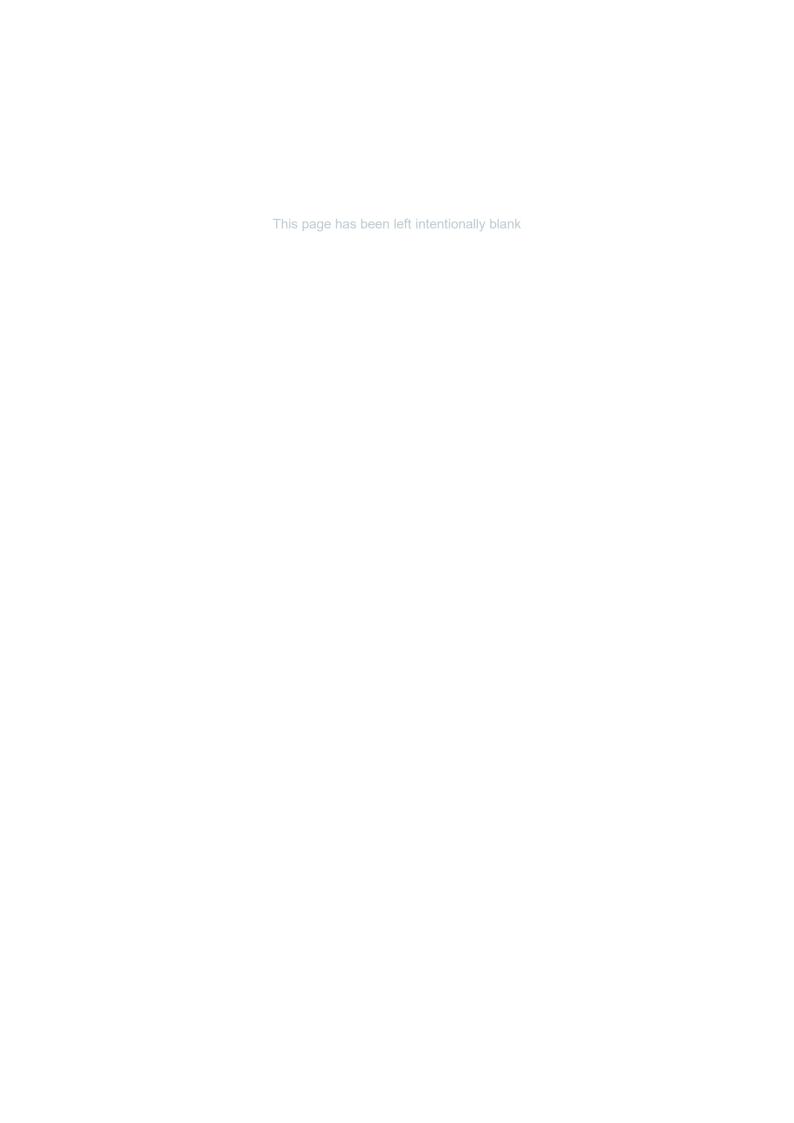
Storeroom & Mortuary

Cessnock Hospital

Cessnock NSW 2325

23/08/2024





Asbestos and Hazardous Materials Pre-Demolition Assessment

Prepared for.

NSW Health Infrastructure c/o Turner & Townsend

Tetra Tech Coffey Pty Ltd Level 20, Tower B, 799 Pacific Highway Chatswood NSW 2067 Australia t: +61 2 9406 1000 f: +61 2 9415 1678 ABN: 55 139 460 521

ADN. 33 139 400 321

Report Date: 23/08/2024

754-NTLEN347071-1 - Cessnock Hospital - Store Room and Mortuary - HMDR - 04072024

Quality Information

Revision History

| Revision | Description | Date | Originator | Reviewer | Approver |
|----------|-------------|------------|------------|------------|--------------|
| R01 | Final | 23/08/2024 | Sam Crofts | Ben McCann | Aaron Holmes |

Distribution

| Report Status | No. of copies | Format | Distributed to | Date |
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| R01 | 1 | PDF | NSW Health Infrastructure c/o Turner & Townsend | 23/08/2024 |

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Executive Summary

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Storeroom & Mortuary buildings located at Cessnock Hospital, Cessnock NSW 2325 (the site).

The purpose of the hazmat pre-demolition assessment was to identify and assess the health risk posed by hazmat, including asbestos containing materials (ACM) which may be encountered during future demolition/refurbishment works of the building. This is in order to meet the requirements of the relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes.

State/Territory legislation and industry guidance requires that information in this report is supplied on the understanding that the area surveyed is scheduled for demolition/refurbishment works, and that identified asbestos and other hazmat will be removed prior to, or as part of these works. Asbestos or other hazmat remaining in situ will need to be detailed in the asbestos and hazmat register and site-specific asbestos management plan designed to control the risks of exposure to hazardous materials.

The following hazardous building materials were identified at the time of the assessment:

| Property | Asbestos Containing Materials | | Lead Based Paint | Lead Containing Dust | Synthetic Mineral Fibre | Poly- chlorinated Biphenyls | Ozone Depleting Substances |
|----------------------|-------------------------------------|---------|------------------------|----------------------------|-------------------------------|-----------------------------------|----------------------------------|
| | Non- Friable | Friable | | | | | |
| Storeroom & Mortuary | ✓ | ✓ | ✓ | - | ✓ | - | - |

Full details of the material assessments can be located within **Appendix A: Asbestos and Hazardous Materials Register**.

Areas of No Access or Limited Access were present and are described in Section 2.2. It should be presumed that hazmat are present in these areas until further inspection can confirm or refute their presence.

A number of other recommendations were made in the body of this report which address the ongoing management of hazardous building materials at this site.

This executive summary must be read in conjunction with this entire report and the limitations contained therein.

1. Introduction

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Storeroom & Mortuary buildings located at Cessnock Hospital, Cessnock NSW 2325 (the site). Sam Crofts of Tetra Tech conducted the assessment on the 04/07/2024.

Note: The building was occupied at the time of the assessment. As such, destructive/intrusive sampling methods were not able to be used during the survey. A destructive hazardous materials survey must be carried out when the building has been vacated prior to any demolition or refurbishment works.

1.1. Site Information

The asbestos and hazardous materials pre-demolition assessment was undertaken of the Storeroom & Mortuary located at Cessnock Hospital, Cessnock NSW 2325 (the site).

| Table 1: Site Information | | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|--|
| Site: | Storeroom & Mortuary, Cessnock Hospital, Cessnock NSW 2325 | | | | | | | | |
| Age (Circa): | 1960's | | | | | | | | |
| Site Description: | Storeroom & Mortuary hospital buildings | | | | | | | | |

1.2. Objective and Scope of Works

The objectives/scope of the hazmat assessment was to:

- Identify the presence of the following confirmed and or suspected hazmat building materials within accessible areas of nominated building(s):
 - Asbestos Containing Materials (ACM);
 - Lead Based Paint (LBP);
 - Lead Containing Dust (LCD);
 - Synthetic Mineral Fibres (SMF);
 - Polychlorinated Biphenyls in fluorescent light capacitors (PCBs); and
 - Ozone Depleting Substances (ODSs).
- Collect samples of suspected ACM and/or LBP and LCD, for analysis by a NATA accredited laboratory;
- Visually determine the presence of SMF, PCB-containing light fittings and ODSs;
- Recommend risk management strategies to mitigate risks associated with ACM and other hazmat for removal and ongoing occupancy;
- Prepare a detailed assessment report in alignment with the requirements of relevant State/Territory Regulations, Compliance Codes, Codes of Practice and Guidance Notes, and
- Provide a copy of the assessment report in electronic (PDF) format to NSW Health Infrastructure.

2. Findings

The results of the asbestos and hazardous materials pre-demolition assessment are provided in a register format which is designed to provide readily available information about the presence of hazmat prior to demolition or refurbishment.

2.1. Assessment Findings

The findings of this assessment are presented in tabulated format, including building materials that have been photographed are depicted in **Appendix A: Asbestos and Hazardous Materials Register**.

The following significant key findings are noted:

2.1.1. Asbestos Containing Materials

| Location | Material Description | Risk Rating |
|--|--|-------------|
| Internal / GF / Storeroom Ceiling Space / Pipework, Throughout | Lagging | Medium |
| Internal / GF / Storeroom / Main Foyer & Offices, Throughout | Vinyl Floor Tiles (cream with white specs) | Low |
| Internal / GF / Storeroom / Main foyer & Offices, Various Throughout | Vinyl Floor Tiles (green) | Low |
| Internal / GF / Storeroom / Main Foyer & Offices, Various Throughout | Vinyl Floor Tiles (red) | Low |
| External / GF / Mortuary, All Areas / Awning, Entrance | Fibre Cement Sheeting | Low |
| External / GF / Mortuary, All Areas / Gable End, North & South | Profiled Fibre Cement Sheeting | Low |
| External / GF / Storeroom Driveway / Electrical Distribution Board, Northern Boundary | Compressed Bituminous Panel | Low |

2.1.2. Lead Based Paint

| Location | Material Description | Risk Rating |
|--|----------------------|-------------|
| External / GF / Storeroom Driveway / Metal Works, Various Throughout | Blue (Light) Paint | Low |
| Internal / GF / Storeroom / Windows & Frames, Various Throughout | White Paint | Low |
| External / GF / Mortuary, All Areas / Door & Frames, Throughout | Pink (Light) Paint | Very Low |
| External / GF / Mortuary, All Areas / Timber Works, Adjacent Entrance | Blue (Light) Paint | Very Low |

2.1.3. Lead Containing Dust

No suspect lead containing dust identified at the time of the assessment.

2.1.4. Synthetic Mineral Fibres

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| Internal / GF / Storeroom Ceiling Space / On Top of Ceiling, Throughout | Dust | Low |
| Internal / GF / Storeroom Ceiling Space / Roof Lining | Sarking Insulation | Very Low |
| Internal / GF / Storeroom Ceiling Space / Throughout | Insulation Batts | Very Low |

2.1.5. Polychlorinated Biphenyls

No suspect PCB containing capacitors identified at the time of the assessment.

2.1.6. Ozone Depleting Substances

No suspect ODS's identified at the time of the assessment.

2.2. Access Restrictions

Where no access or limited access areas have been identified it should be presumed that hazmat are present in these areas until further investigation can confirm or refute their presence.

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

2.2.1. No Access Areas

The following areas were not accessible at the time of the assessment:

- Within live electrics, plant and ductwork throughout.
- Areas outside the scope of assessment.
- Sub-floor.

2.2.2. Limited Access Areas

Access to the following areas was limited at the time of the assessment:

- Ceiling space limited access from access hatch;
- Wall voids:
- Below floors;
- · Behind ceramic wall tiles;
- · Beneath floor coverings;
- Subfloor spaces;
- Risers;
- Occupied areas;
- Formwork to concrete slabs; and
- Roof.

Tetra Tech Coffey 754-NTLEN347071-1 23/08/2024

3. Recommendations

The following recommendations are provided with respect to hazmat identified during the assessment of the site. This assessment only covers the parts of the site that have been accessed and been assessed in accordance with the approved scope.

3.1. Asbestos Containing Materials

The preference will always be to eliminate the asbestos hazards from the site and if it is practicable for the occupier to do so then asbestos removal should always be considered. ACM on site, which were found to be in a bonded and stable condition, may be managed in situ and periodically inspected if removal is not practicable.

If managed in situ, all identified or presumed ACM should be appropriately labelled, where possible, and regularly inspected to assess their condition and potential changes to health risk.

Prior to any demolition, partial demolition, renovation or refurbishment, ACM likely to be disturbed by those works should be removed in accordance with relevant codes of practices, compliance codes and legislation.

3.1.1. Asbestos Control Measures

- If the ACM is friable, in a poor/unstable condition and accessible with risk to health from exposure, immediate access restrictions should be applied, and removal is required as soon as practicable using a licensed contractor.
- If the ACM is friable, accessible but in a stable condition, removal is preferred. However, if removal is not immediately practicable, short-term control measures (i.e. restrict access, sealing, enclosure etc) may be employed until removal can be facilitated.
- If the ACM is non-friable and, in a poor/unstable condition, disturbance should be minimised. Removal or encapsulation may be appropriate controls. ACM which are found in localised areas and identified as damaged, consisting of small qualities of non-friable cement debris may not require the highest removal priority. The removal priority may be lowered due to a low risk of disturbance. Further confirmation can be obtained via asbestos fibre air monitoring where the result is found to be < 0.01 fibre/mL.
- For the instances above and further assessment of the risk, airborne fibre monitoring is recommended and can assist with decisions on the most appropriate, and urgency of, control measures
- Where ACM is in a good, stable condition, ongoing maintenance and periodic inspection would be appropriate control measures.
- Remaining ACM identified or presumed should be appropriately labelled where possible. Those items should be regularly inspected to ensure they are not deteriorating and resulting in a potential risk to health.
- An asbestos management plan (AMP) should be created and maintained for all ACM that remain
 at the site to assist the persons conducting a business or undertaking (PCBU) with the
 management of these materials. The AMP must ensure that suitable control measures are
 implemented to prevent site personnel and others from being exposed to airborne asbestos fibres.
- Schedule periodic reassessment of ACM remaining on-site to monitor their aging/deterioration so that the PCBU can be alerted if any ACM require encapsulation or removal.
- Prior to any demolition or refurbishment works, all asbestos and hazardous materials identified and likely to be disturbed by demolition or refurbishment works should be removed in accordance with the legislative requirements and relevant codes of practice or compliance codes.

 During future demolition works, if any materials that are not referenced in this report and are suspected of containing asbestos are encountered, then works must cease and an asbestos hygienist should be notified to determine whether the material contains asbestos.

The recommendations, conclusions or stability of asbestos materials contained in this report shall not abrogate a person of their responsibility to work in accordance with statutory requirements, codes of practice, guidelines, material safety data sheets, work instructions or reasonable work practices.

3.2. Lead Based Paint

- Any works that are likely to disturb lead based paint surface should be undertaken in accordance with the Australian Standard (AS4361.2:2017), Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings.
- Prior to any disturbance of lead based paint a comprehensive risk assessment is to be conducted.
- Any loose and peeling lead based paint should be stabilised (using hand-held scrapers, drop cloths and wet misting where appropriate) and the paint chips disposed of as hazardous waste.
- Any remediation works that may generate dust or fumes (i.e. sanding, burning) must be performed
 under controlled conditions by a suitably resourced and experienced hazardous material/waste
 abatement contractor (e.g. a Class A licensed asbestos removal contractor).

3.3. Synthetic Mineral Fibres

 SMF materials that are likely to be disturbed during any proposed demolition/refurbishment works should be handled in accordance with The National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)].

3.4. Training

Information, instruction and training must be provided to workers, contractors and others who may come into contact with hazardous materials in a workplace, either directly or indirectly.

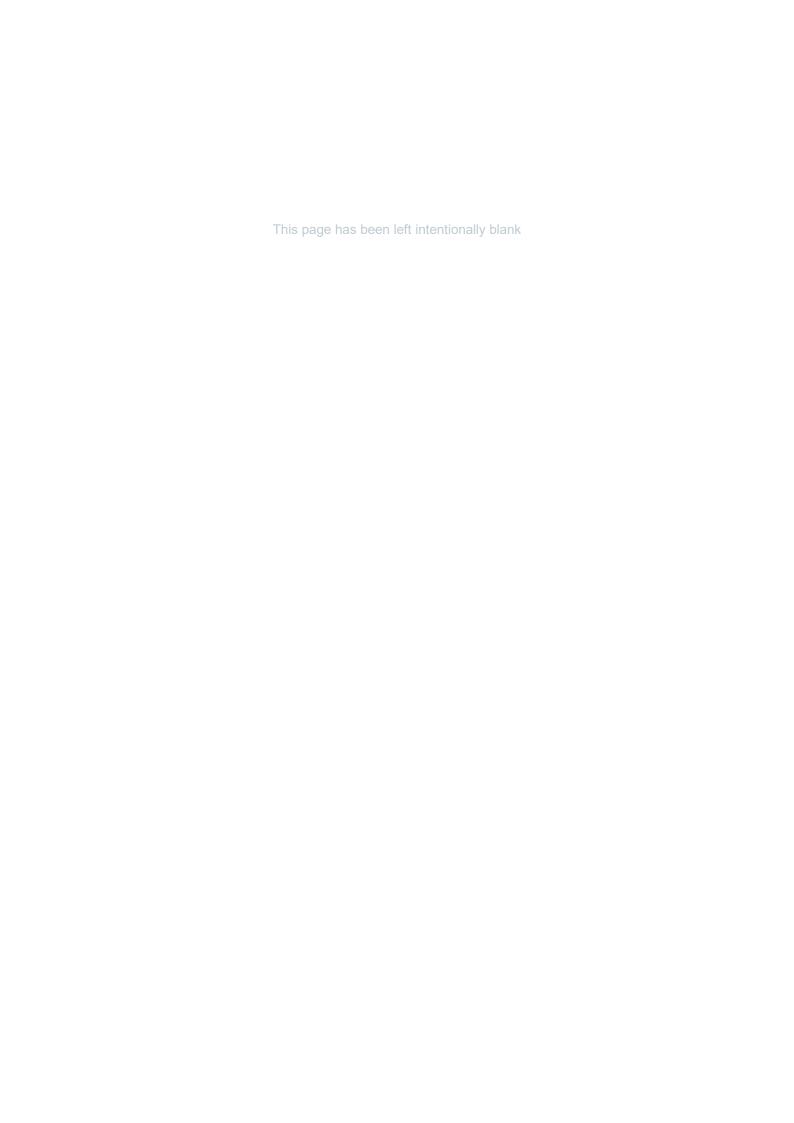
Depending on the circumstances this hazardous materials awareness training may include:

- The purpose of the training;
- The health risks of hazardous materials;
- The types, uses and likely occurrence of hazardous materials on site, in plant and/or equipment in the workplace;
- The trainee's roles and responsibilities for hazmat management;
- Where the asbestos and hazardous materials register is located and how it can be accessed;
- The timetable for removal of hazmat from the workplace;
- The processes and procedures to be followed to prevent exposure, including exposure from any accidental release of hazmat into the workplace;
- Where applicable, the correct use of maintenance and control measures, protective equipment and work methods to minimise the risks from hazmat, limit the exposure of workers and limit the spread of hazmat outside any work area;
- The National Exposure Standard (NES) and control levels for hazmat; and
- The purpose of any air monitoring or health surveillance that may occur.

Should any further suspect asbestos and/or hazmat become evident during future disturbance/ refurbishment works which have not been addressed in this report, Tetra Tech should be contacted immediately so that a WHS consultant can confirm the status of the suspect material/s.

| Tetra Tech is able to assist with all aspects of Risk Management for removal of asbestos and other hazardous materials resulting from these findings |
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Appendix A: Asbestos and Hazardous Materials Register



| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-----------------------------------|----------|---|---|-------------|----------|-----------|----------------|--|---|---------|
| External | GF / Mortuary, All Areas / Awning, Entrance | Fibre Cement Sheeting | Asbestos | Previously Sampled KT01 | Chrysotile Asbestos Detected | Non-Friable | 30 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 1 |
| External | GF / Mortuary, All Areas / Gable End, North & South | Profiled Fibre Cement Sheeting | Asbestos | A27967 | Chrysotile and Amosite Asbestos Detected | Non-Friable | 22 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 2 |
| External | GF / Storeroom Driveway / Electrical Distribution Board, Northern Boundary | Compressed Bituminous Panel | Asbestos | 754- NTLEN347071- 1Storeroom & Mortuary493A1 | Suspected Asbestos | Non-Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Not sampled - Live electrical hazard Remove under controlled non- friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 3 |
| Internal | GF / Storeroom / Access Hatch, Central | Fibre Cement Sheeting | Asbestos | 754- NTLEN347071- 1Storeroom & Mortuary493A2 | Suspected | - | 1 m² | - | - | - | Installed 2018. Suspected negative due to age and appearance. | 4 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--|----------|---------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Storeroom / Main Foyer & Offices, Throughout | Vinyl Floor Tiles (cream with white specs) | Asbestos | A10600 | Chrysotile Asbestos Detected | Non-Friable | 60 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 5 |
| Internal | GF / Storeroom / Main foyer & Offices, Various Throughout | Vinyl Floor Tiles (green) | Asbestos | A10601 | Chrysotile Asbestos Detected | Non-Friable | 6 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 6 |
| Internal | GF / Storeroom / Main Foyer & Offices, Various Throughout | Vinyl Floor Tiles (red) | Asbestos | A10602 | Chrysotile Asbestos Detected | Non-Friable | 6 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 7 |
| Internal | GF / Storeroom Ceiling Space / On Top of Ceiling, Throughout | Dust | Asbestos | A10604 | No Asbestos Detected | - | 200 m² | - | - | - | | 8 |
| Internal | GF / Storeroom Ceiling Space / Pipework, Throughout | Lagging | Asbestos | A10603 | Amosite Asbestos Detected | Friable | 80 m | Fair | Medium | Prior to refurbishment or demolition | Restrict access and remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant | 9 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|------------|---------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| | | | | | | | | | | | State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| External | GF / Mortuary, All Areas / Door & Frames, Throughout | Pink (Light) Paint | Lead Paint | L22339 | Lead Detected (0.18% w/w) | - | 20 m² | Stable | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | . 10 |
| External | GF / Mortuary, All Areas / Timber Work, Adjacent Entrance | Blue (Light) Paint | Lead Paint | L22338 | Lead Detected (0.23% w/w) | - | 20 m² | Stable | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | . 11 |
| External | GF / Storeroom Driveway / Metal Work, Various Throughout | Blue (Light) Paint | Lead Paint | L18420 | Lead Detected (0.10% w/w) | - | 10 m² | Fair | Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | . 12 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|------------|---|---------------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / Storeroom / Wall Lining, Throughout | Cream Paint | Lead Paint | L18422 | Lead Detected (0.03% w/w) | - | 130 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 13 |
| Internal | GF / Storeroom / Windows & Frames, Various Throughout | White Paint | Lead Paint | L18421 | Lead Detected (0.21% w/w) | - | 30 m² | Stable | Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 14 |
| Internal | GF / Storeroom Ceiling Space / On Top of Ceiling, Throughout | Dust | SMF | A10604.1 | SMF Detected | - | 200 m² | - | Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 15 |
| Internal | GF / Storeroom Ceiling Space / Roof Lining | Sarking Insulation | SMF | 754- NTLEN347071- 1Storeroom & Mortuary493S2 | Suspected SMF | - | 100 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 16 |
| Internal | GF / Storeroom Ceiling Space / Throughout | Insulation Batts | SMF | 754- NTLEN347071- 1Storeroom & Mortuary493S1 | Suspected SMF | - | 120 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 17 |







Bulk Identification Report

Job No: 754-NTLEN347071-1 Bulk ID Report Cessnock Hospital Storeroom & Mortuary 16072024

Client: NSW Health Infrastructure

Client Address: 1 Reserve Rd, St Leonards NSW 2065

Contact: Les Palma

E-mail: Les.Palma@turntown.com

Date Sampled: 04-07-2024

Date Analysed: 16-07-2024

Date Authorised: 18-07-2024

Sampled By: Ben McCann

Site: Cessnock Hospital, 24 View St, Cessnock, NSW



Please note: Where you have provided the samples for analysis, Tetra Tech Coffey Pty Ltd does not take any responsibility for the quality of such samples. This report relates exclusively to the samples analysed by Tetra Tech Coffey Pty Ltd and as such only the samples submitted or collected for analysis have been considered in presenting these results. The data and results contained in this report are not representative of the site, product or source material as a whole. Tetra Tech Coffey Pty Ltd does not make any warranty or representation in relation to the site, product or source material as a whole. If you suspect any material to contain asbestos, then you must immediately stop the works and activities at the site or in respect of the materials and engage Tetra Tech Coffey Pty Ltd or another suitably trained asbestos hygienist to sample, assess or re-assess (as the case may be) the material suspected to contain asbestos.

Asbestos in Bulk Samples and Non-homogenous Material

Test Method: Tetra Tech Coffey Pty Ltd analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in

accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi-quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Tetra Tech Coffey Pty Ltd's NATA approved SOP

WILAB1 sample retention periods are set at 1 month for all samples from the date of analysis.

Analysed At: Tetra Tech Coffey Pty Ltd Laboratory, Level 20, Tower B, Citadel Towers 799 Pacific Highway Chatswood NSW 2067

Total Samples: 6

Approved Identifier
Matthew Tang
Matthew Tang
Matthew Tang

| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|---|-----------------|--|
| A10600 | Internal, GF, Storeroom, Main Foyer & Offices, Throughout, Vinyl Floor Tiles (cream with white specs) A. Beige vinyl tile B. Amber adhesive | 94 x 55 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A10601 | Internal, GF, Storeroom, Main foyer & Offices, Various throughout, Vinyl Floor Tiles (green) A. Green vinyl tile B. Amber adhesive | 54 x 41 x 4 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A10602 | Internal, GF, Storeroom, Main Foyer & Offices, Various throughout, Vinyl Floor Tiles (red) A. Red vinyl tile B. Amber adhesive | 78 x 55 x 4 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A10603 | Internal, GF, Storeroom Ceiling space, Pipework, Throughout, Lagging - White loose fibrous insulation material | 16 x 12 x 2 mm | Amosite (brown asbestos) detected |
| A10604 | Internal, GF, Storeroom Ceiling space, On top of ceiling, Throughout, Dust - Brown non-homogeneous fibrous dust & debris | 2.9 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |

18-07-2024 Page 1 of 2

| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|---|-----------------|---|
| A27967 | External, GF, Mortuary, All Areas, Gable end, North & South, Moulded Fibre Cement - Cream painted grey compressed fibre cement sheet material | 31 x 22 x 5 mm | Chrysotile (white asbestos) detected Amosite (brown asbestos) detected |

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18-07-2024 Page 2 of 2



Envirolab Services Pty Ltd ABN 37 112 535 645

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CERTIFICATE OF ANALYSIS 356689

| Client Details | |
|----------------|---|
| Client | Tetra Tech Coffey Pty Ltd |
| Attention | Ben McCann |
| Address | Level 20, Tower B, Citadel Tower, 799 Pacific Hwy, Chatswood, NSW, 2067 |

| Sample Details | |
|--------------------------------------|--|
| Your Reference | 754-NTLEN34707-1, Cessnock Hospital Survey |
| Number of Samples | 5 Paint |
| Date samples received | 16/07/2024 |
| Date completed instructions received | 16/07/2024 |

Analysis Details

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

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

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

| Report Details | | | | | |
|---|---|--|--|--|--|
| Date results requested by | 23/07/2024 | | | | |
| Date of Issue | 19/07/2024 | | | | |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full. | | | | | |
| Accredited for compliance with ISC | D/IEC 17025 - Testing. Tests not covered by NATA are denoted with * | | | | |

Results Approved By

Giovanni Agosti, Group Technical Manager

Authorised By

Nancy Zhang, Laboratory Manager

Envirolab Reference: 356689 Revision No: R00



| Lead in Paint | | | | | | |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference | | 356689-1 | 356689-2 | 356689-3 | 356689-4 | 356689-5 |
| Your Reference | UNITS | L18420 | L18421 | L18422 | L22338 | L22339 |
| Date Sampled | | 04/07/2024 | 04/07/2024 | 04/07/2024 | 04/07/2024 | 04/07/2024 |
| Type of sample | | Paint | Paint | Paint | Paint | Paint |
| Date prepared | - | 17/07/2024 | 17/07/2024 | 17/07/2024 | 17/07/2024 | 17/07/2024 |
| Date analysed | - | 18/07/2024 | 18/07/2024 | 18/07/2024 | 18/07/2024 | 18/07/2024 |
| Lead in paint | %w/w | 0.10 | 0.21 | 0.03 | 0.23 | 0.18 |

Envirolab Reference: 356689 Revision No: R00

| Method ID | Methodology Summary |
|--------------------|--|
| Metals-020/021/022 | Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS. |

Envirolab Reference: 356689 Page | 3 of 6

Revision No: R00

| QUALIT | Duplicate | | | | Spike Recovery % | | | | | |
|------------------|-----------|-------|--------------------|------------|------------------|------|------|------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date prepared | - | | | 17/07/2024 | [NT] | | [NT] | [NT] | 17/07/2024 | |
| Date analysed | - | | | 18/07/2024 | [NT] | | [NT] | [NT] | 18/07/2024 | |
| Lead in paint | %w/w | 0.005 | Metals-020/021/022 | <0.005 | [NT] | | [NT] | [NT] | 113 | |

Envirolab Reference: 356689 Page | 4 of 6

| Result Definiti | ons |
|-----------------|---|
| 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 |

Envirolab Reference: 356689

Revision No: R00

| Quality Control | ol Definitions |
|------------------------------------|--|
| Blank | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples. |
| Duplicate | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable. |
| Matrix Spike | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| LCS (Laboratory Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample. |
| Surrogate Spike | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples. |

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

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

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

Envirolab Reference: 356689 Page | 6 of 6 R00





AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

Our ref: ASET63880 / 67060 / 1 - 6 Your ref: 17.1624 - Records and Mortuary and Kitchen NATA Accreditation No: 14484

18 April 2018

Practical Environmental Solutions PO Box 167 Mayfield NSW 2304

Attn: Mr Tony Milligan

ACCREDITATION

Accredited for compliance with IND/IEC 17025.

Dear Tony

Asbestos Identification

This report presents the results of six samples, forwarded by Practical Environmental Solutions on 18 April 2018, for analysis for asbestos.

Hintroduction: Six samples forwarded were examined and analysed for the presence of asbestos.

Methods: The samples were examined under a Stereo Microscope and selected fibres were analysed by Polarized Light Microscopy in conjunction with Dispersion Staining method (Australian Standard AS 4964 - 2004 and Safer Environment Method 1 as the

supplementary work instruction) (Qualitative Analysis only).

Sample No. 1. ASET63880 / 67060 / 1. KT01 - FFCS Eaves soffit to western 3. Results:

aspect.

Approx dimensions 0.75 cm x 0.45 cm x 0.15 cm

The sample consisted of a fragment of a fibro plaster cement material containing organic

Chrysotile asbestos detected.

Sample No. 2. ASET63880 / 67060 / 2. KT02 - Vermiculite spray to cafeteria ceiling.

Approx dimensions 3.5 cm x 2.0 cm x 0.3 cm

The sample consisted of fragments of a soft plaster material containing vermiculite like

material

No asbestos detected.

Sample No. 3. ASET63880 / 67060 / 3. KT0 3 - Cream VFTs to Cafeteria floor.

Approx dimensions 7.0 cm x 4.5 cm x 0.2 cm

The sample consisted of a fragment of a hard floor tile.

Chrysotile asbestos detected.

Sample No. 4. ASET63880 / 67060 / 4. KT04 - SE Verandah infill panels

Approx dimensions 0.35 cm x 0.25 cm x 0.1 cm

The sample consisted of a fragment of a fibre cement material.

Chrysotile asbestos detected.

Sample No. 5. ASET63880 / 67060 / 5. KT05 - Brown VFTs to Cafeteria. Approx dimensions 6.1 cm x 4.2 cm x 0.2 cm

The sample consisted of a fragment of a hard floor tile.

Chrysotile asbestos detected.



Asbestos Register Review & Update Cessnock Hospital - Mortuary, Kitchen and Records



Sample No. 6. ASET63880 / 67060 / 6. KT06 - Broadsheet vinyl floor covering. Approx dimensions $8.0~\mathrm{cm} \times 5.0~\mathrm{cm} \times 0.2~\mathrm{cm}$ The sample consisted of a fragment of a vinyl floor tile. No asbestos detected (An independent confirmatory analytical technique is advised due to the nature of the sample).

Analysed and reported by,

Cam SK

Chamath Annakkage. BSc Analyst / Approved Identifier

Mahen De Silva. BSc, MSc, Grad Dip (Occ Hyg) Occupational Hygienist / Approved Signatory Accredited for compliance with ISO/IEC 17025.

The results contained in this report relate only to the sample/s submitted for testing. Australian Safer Environment & Technology accepts no responsibility for whether or not the submitted sample/s is/are representative. Results indicating "No ashestos detected" indicates a reporting limit specified in AS4964-2004 which is 0.1g/ Kg (0.01%). Any amounts detected at assumed lower level than that would be reported, however those assumed lower levels may be treated as "No ashestos detected" as specified and recommended by AS4964-2004. Trace / respirable level ashestos will be reported only when detected.

Appendix C: Photographs





Line ID 1: External, GF, Mortuary, All Areas, Awning, Entrance, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 1.1: External, GF, Mortuary, All Areas, Awning, Entrance, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 2: External, GF, Mortuary, All Areas, Gable End, North & South, Moulded Fibre Cement - Chrysotile and Amosite Asbestos Detected



Line ID 2.1: External, GF, Mortuary, All Areas, Gable End, North & South, Moulded Fibre Cement - Chrysotile and Amosite Asbestos Detected



Line ID 3: External, GF, Storeroom Driveway, Electrical Distribution Board, Northern Boundary, Compressed Bituminous Panel - Suspected Asbestos



Line ID 3.1: External, GF, Storeroom Driveway, Electrical Distribution Board, Northern Boundary, Compressed Bituminous Panel - Suspected Asbestos



Line ID 4: Internal, GF, Storeroom, Access Hatch, Central, Non-Suspect Material - No Asbestos Suspected



Line ID 5: Internal, GF, Storeroom, Main Foyer & Offices, Throughout, Vinyl Floor Tiles (cream with white specs) -Chrysotile Asbestos Detected



Line ID 5.1: Internal, GF, Storeroom, Main Foyer & Offices, Throughout, Vinyl Floor Tiles (cream with white specs) - Chrysotile Asbestos Detected



Line ID 6: Internal, GF, Storeroom, Main foyer & Offices, Various Throughout, Vinyl Floor Tiles (green) - Chrysotile Asbestos Detected



Line ID 6.1: Internal, GF, Storeroom, Main foyer & Offices, Various Throughout, Vinyl Floor Tiles (green) - Chrysotile Asbestos Detected



Line ID 7: Internal, GF, Storeroom, Main Foyer & Offices, Various Throughout, Vinyl Floor Tiles (red) - Chrysotile Asbestos Detected



Line ID 7.1: Internal, GF, Storeroom, Main Foyer & Offices, Various Throughout, Vinyl Floor Tiles (red) - Chrysotile Asbestos Detected



Line ID 8: Internal, GF, Storeroom Ceiling Space, On Top of Ceiling, Throughout, Dust - No Asbestos Detected



Line ID 9: Internal, GF, Storeroom Ceiling Space, Pipework, Throughout, Lagging - Amosite Asbestos Detected



Line ID 9.1: Internal, GF, Storeroom Ceiling Space, Pipework, Throughout, Lagging - Amosite Asbestos Detected



Line ID 10: External, GF, Mortuary, All Areas, Door & Frames, Throughout, Pink (Light) Paint - Lead Detected (0.18% w/w)



Line ID 10.1: External, GF, Mortuary, All Areas, Door & Frames, Throughout, Pink (Light) Paint - Lead Detected (0.18% w/w)



Line ID 11: External, GF, Mortuary, All Areas, Timber Works, Adjacent Entrance, Blue (Light) Paint - Lead Detected (0.23% w/w)



Line ID 11.1: External, GF, Mortuary, All Areas, Timber Works, Adjacent Entrance, Blue (Light) Paint - Lead Detected (0.23% w/w)



Line ID 12: External, GF, Storeroom Driveway, Metal Works, Various Throughout, Blue (Light) Paint - Lead Detected (0.10% w/w)



Line ID 12.1: External, GF, Storeroom Driveway, Metal Works, Various Throughout, Blue (Light) Paint - Lead Detected (0.10% w/w)



Line ID 13: Internal, GF, Storeroom, Wall Lining, Throughout, Cream Paint - Lead Detected (0.03% w/w)



Line ID 13.1: Internal, GF, Storeroom, Wall Lining, Throughout, Cream Paint - Lead Detected (0.03% w/w)



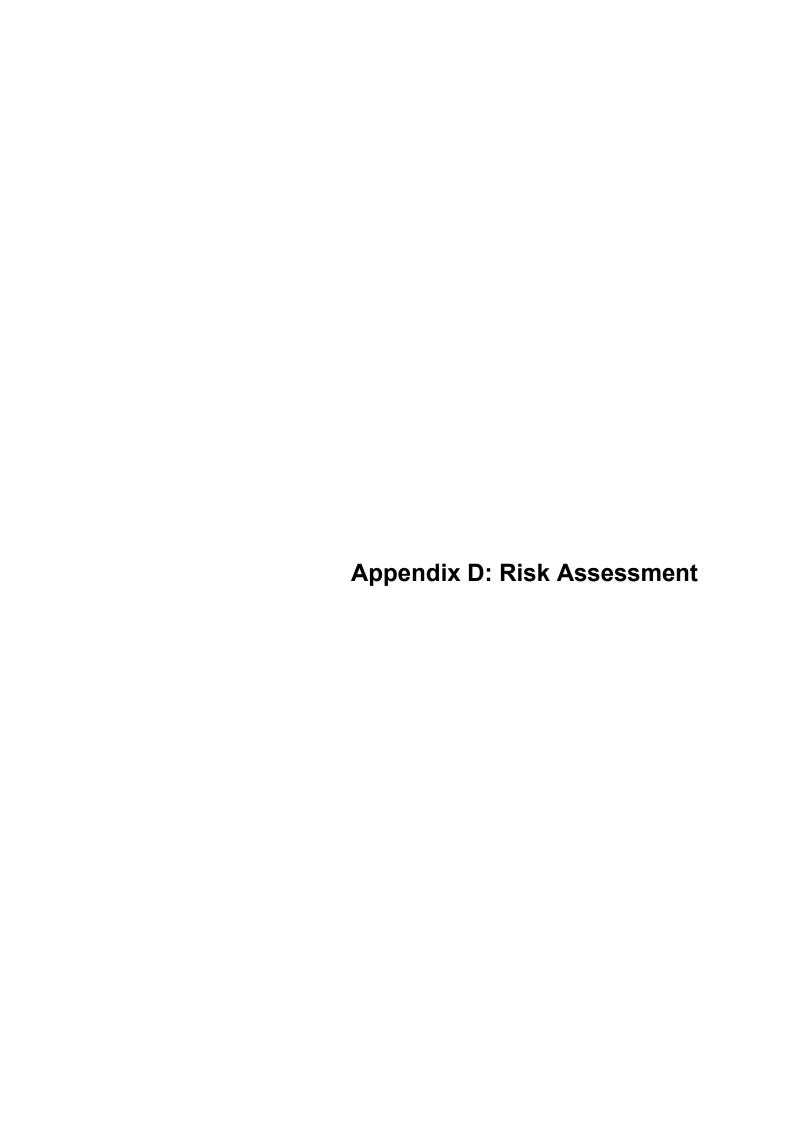
Line ID 14: Internal, GF, Storeroom, Windows & Frames, Various Throughout, White Paint - Lead Detected (0.21% w/w)



Line ID 16: Internal, GF, Storeroom Ceiling Space, Roof Lining, Sarking Insulation - Suspected SMF



Line ID 17: Internal, GF, Storeroom Ceiling Space, Throughout, Insulation Batts - Suspected SMF





Risk Assessment

The risk assessment is explained, in the tables below. Our semi-quantitative risk assessment borrows elements from the materials risk assessment documented in HSG264: Asbestos: The survey guide – HSE and the priority risk assessment documented in HSG 227: A comprehensive guide to Managing Asbestos in premises – HSE, providing an element of quantification to the qualitative nature of site risk assessment.

Some of the elements of these well documented risk assessments have been omitted. Most notably the asbestos type from the materials risk assessment, as all types of asbestos are listed by the International Agency for Research on Cancer (IARC) as Type 1 Carcinogens. In addition, we have omitted the maintenance activity from HSG 277. The reason being that human risk factors associated with maintenance activities are often difficult to assess in-situ and require detailed input from the Person in Control of a Business of Undertaking (PCBU).

The risk assessment then takes into account all other Hazardous materials and utilizes similar algorithms to create a risk assessment for those materials.

The asbestos containing material risk score is a quantitative assessment determined by the sum of the scores based on the material assessment and the likelihood of exposure, i.e. Risk score = Material Score + Location Score (out of as possible 18).

An explanation of the material assessment and likelihood of exposure scores can be found in the tables below.

Table 2 - Risk Scores

| Overall Risk Assessment Score | Overall Risk Rating |
|-------------------------------|---------------------|
| 0 – 4 | Very Low |
| 5 – 8 | Low |
| 9 – 13 | Moderate |
| 14 – 18 | High |

Table 3 – Product Type (or debris)

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|--|--|-------|
| Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement etc.) | SMF composite products / insulation batts / woven products, Lead paint, Lead Compounds/Alloys/Products, Small PCB containing electrical capacitors | 1 |
| Asbestos insulating board, mill boards, other low- density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt | RCF woven/treated products, Lead paint flakes, Industrial PCB containing industrial transformers | 2 |
| Thermal insulation (e.g. pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing | RCF loose fill products, Lead dust, PCB containing oils in bulk storage, or uncontained spills. | 3 |

Table 4 – Extent of Damage or Deterioration

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Good condition: no visible damage | Good condition: no visible damage | 0 |
| Low damage: a few scratches or surface marks; broken edges on boards, tiles etc. | Low damage: a few scratches or surface marks; Peeling paint, Large paint flakes, Redundant PCB container in accessible area out of electrical product | 1 |
| Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres | Medium damage: significant breakage of materials or several small areas where material has been damaged, good condition sprays and insulation, large amounts of fine flaking paint and debris, Leaking PCB containing electrical equipment | 2 |
| High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris | High damage or delamination of materials. Visible debris, Lead dust, Pooling PCB oils, leaking oil bulk containers | 3 |

Table 5 – Surface type and treatment

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles | SMF/RCF composite products, insulation products sealed behind a non-friable barrier, Lead paints <0.1%w/w, lead, compounds/ alloys/ products <0.1%w/w lead, PCB oils <2mg/kg | 0 |
| Enclosed sprays and lagging, asbestos insulating board (with exposed face painted or encapsulated), asbestos cement sheets etc. | SMF/RCF woven and insulation products, Lead paints ≥0.1%w/w and <0.25%w/w, PCB ≥2mg/kg and <50mg/kg in oil | 1 |
| Unsealed asbestos insulating board, or encapsulated lagging and sprays | SMF/RCF heat-treated insulation products, Lead paints ≥0.25%w/w and <1.0%w/w, Lead dusts above recommended clearance indicator based on AS/NZS4361.2. PCB ≥50mg/kg and <10,000mg/kg in oil | 2 |
| Unsealed laggings and sprayed asbestos | Lead dusts a multiple of at least 5 times above recommended clearance indicator based on AS/NZS4361.2, Lead paint >1.0%, ≥10,000mg/kg in oil (10%w/w) | 3 |

 $^{^{\}rm 2}$ Lead and PCB refers specifically to the analysis result





Legislative Requirements

The assessment, and preparation of this report have been undertaken in accordance with the requirements of State/Territories legislation and standards outlined below.

State/Territories Relevant Legislation

| States & Territories | Acts | Legislation |
|------------------------------------|--|--|
| Australian Capital Territory (ACT) | ACT Work Health & Safety Act 2011 | ACT Work Health & Safety Regulation 2011 |
| New South Wales (NSW) | NSW Work Health & Safety Act 2011 | NSW Work Health & Safety Regulation 2017 |
| Northern Territory (NT) | NT Work Health & Safety Act 2011 | NT Work Health & Safety Regulation 2017 |
| Queensland (QLD) | QLD Work Health & Safety Act 2011 | QLD Work Health & Safety Regulation 2011 |
| South Australia (SA) | SA Work Health & Safety Act 2012 | SA Work Health & Safety Regulation 2012 |
| Tasmania (TAS) | Tasmanian Work Health & Safety Act 2012 | Tasmanian Work Health & Safety Regulation 2012 |
| Victoria (VIC) | Victorian Occupational Health and Safety Act 2004 | Victorian Occupational Health and Safety Regulation 2017 |
| Western Australia (WA) | Occupational Safety and Health Act 1984 | Occupational Safety and Health Regulation 1996 |

States/Territories Code of Practices & Compliance Codes

| States & Territories | Codes of Practices & Compliance Codes | | | |
|------------------------------------|--|---|--|--|
| Australian Capital Territory (ACT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| New South Wales (NSW) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Northern Territory (NT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Queensland (QLD) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| South Australia (SA) | Code of Practice: How to manage and Control asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Tasmania (TAS) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Victoria (VIC) | Compliance Code: Managing Asbestos in Workplaces. | Compliance Code: Removing Asbestos in Workplaces. | | |

| Western Australia (WA) | Code of Practice for Management and Control of Asbestos in Workplaces [NOHSC:2018(2005)]. | Code of Practice for the Safe Removal of Asbestos [NOHSC:2002(2005)] |
|------------------------|--|--|
|------------------------|--|--|

The Victorian Compliance Codes align with the intent of the SafeWork Australia Model Code of Practice

Hazardous Materials Standard & Guidance Notes

| Hazardous Material | Guidance Notes |
|-------------------------------|---|
| Lead Based Paint | AS/NZS <i>4361.2:2017</i> Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings |
| Lead Containing Dust | National Environmental Protection Measure (NEPM) (NEPC,1999) as updated in 2013. |
| Synthetic Mineral Fibres | National Occupational Health and Safety Commission (1990) Synthetic Mineral Fibres; National Standard for Synthetic Mineral Fibres; and the National Code of Practice for the Safe Use of Synthetic Mineral Fibres |
| Polychlorinated Biphenyls | ANZECC (1997) Identification of PCB-containing Capacitors: An Information Booklet for Electricians and Electrical Contractors |
| Ozone Depleting Substances | UNEP (2001) Inventory of Trade Names of Chemical Products containing Ozone Depleting Substances and their Alternatives |

Each section is to be read in conjunction with the whole of this report, including the appendices.

Appendix F: Methodology



Methodology

Hazmat surveys are undertaken considering a risk management approach, in accordance with relevant statutory regulations and relevant Codes of Practice. A risk assessment was conducted based on a number of factors associated with hazmat identified during the survey and prioritised through Risk and Action Classifications.

The assessment involved the onsite investigation for the presence of ACM, SMF, LBP systems, LCD, PCB and ODS including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs). Information was collected from the site owners/occupiers/tenants where available on relevant issues pertaining to the site. Based on the available data and the status at the time of inspection, where items were identified, visual and/or analytical characterisation (where required) was performed and reported in **Appendix A: Asbestos and Hazardous Materials Register**.

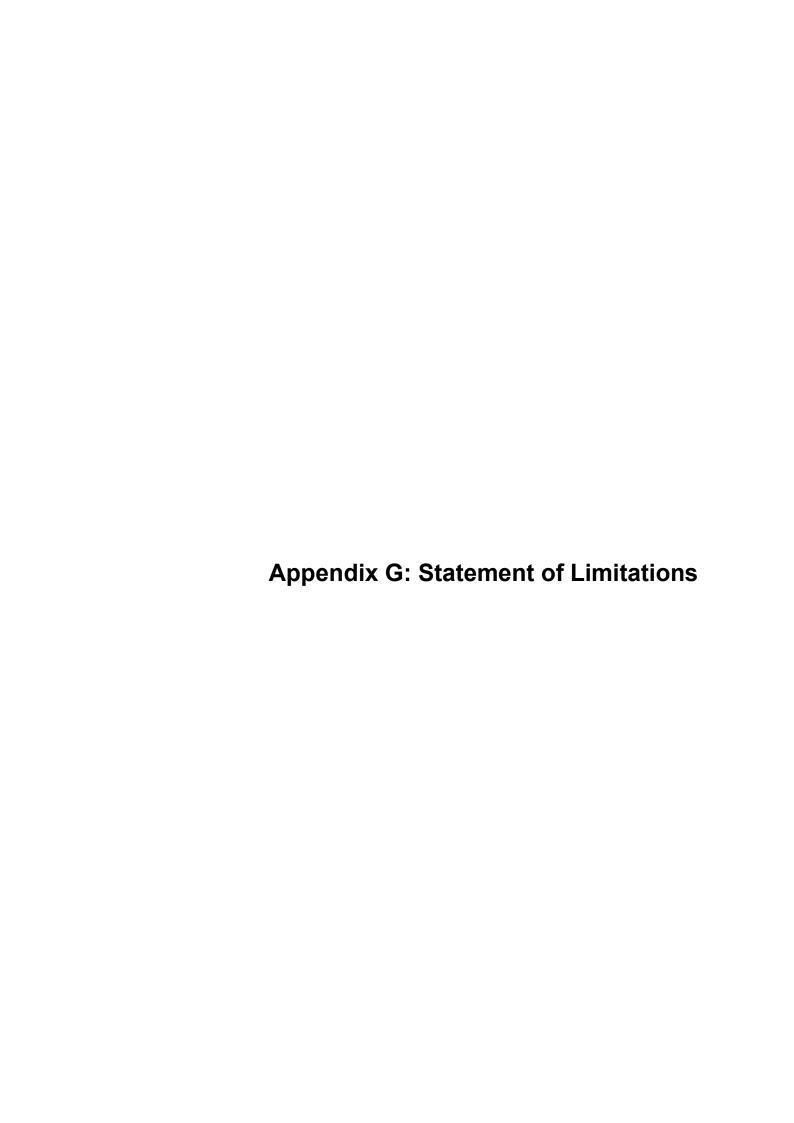
The assessment was conducted on the basis of the condition, type and location of the materials at the time of inspection. The scope of this investigation did not allow intrusive sampling techniques to be undertaken in all locations, and consequently the register may have limitations as a reference document for the purposes of renovation or demolition.

Only 'typical' suspected material occurrences are inspected and sampled. Sampling is undertaken on a representative basis, for example, the inspection of one fire door of the same type within the same area is undertaken (i.e. not every 'matching' fire door is examined), unless specifically instructed. Sample collection was performed in a non-destructive and non-invasive manner by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas contain asbestos materials may also be made and stated within the register.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with relevant Statutory Regulations, Codes of Practice and Tetra Tech's Work Instructions. Laboratories undertaking analysis are appropriately NATA certified for the analysis conducted. LCD thresholds are adopted from lead in soil thresholds found in the National Environment Protection Assessment of Site Contamination (ASC) Measure (1999) as amended in 2013 (NEPM).

The presence of asbestos in bulk samples is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques. Where asbestos was found to exist, a risk assessment was conducted on each item and a priority rating applied. This was conducted in accordance with the protocols described in **Appendix D: Risk Assessment**.

The asbestos and hazmat register is made up of relevant information gathered on site plus Tetra Tech's assessment of risk and assignment of action ratings. Reference to photographs, where available, is made in the register along with sample identification and analysis results, where applicable. Sample analysis results from previous assessments may be utilised and referenced in this register.



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Statement of Limitations

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

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

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client's instruction, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected.

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

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

The assessment brief is to identify every reasonably accessible hazmat. Reasonably accessible does not extend to searching for concealed hazmat beneath concrete encased structural beams or beneath concrete floors, behind another hazmat, or any other locations which, to access, would cause structural damage that could potentially destabilise the structure or the building. Given the way in which hazmat was used in the construction of buildings, some may only be detected during the course of subsequent demolition.

Any areas within the remit of the assessment but not described within the body of the report or in the hazmat register should be regarded by the client as un-assessed, and suspected as ACM potentially containing amphibole asbestos. A competent person should assess such areas before any work affecting them is carried out.

It must be assumed that materials visually assessed as presumed asbestos contain amphibole asbestos, unless sampled and analysed to prove otherwise. All areas where access was not possible must also be presumed to contain asbestos until proven otherwise.

Asbestos Containing Materials

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

Representative sampling is defined as one like sample per consistent material type, situation or item. In these instances, only one test sample will be collected for analytical confirmation and the results expressed as consistent and typical of the building. It is advisable to presume that materials similar to those positively identified as asbestos also contain asbestos until proved otherwise. It should not be presumed that materials similar in appearance to those tested and found not to contain asbestos also do not contain asbestos.

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

Notably, with some asbestos containing bulk material it can be very difficult, or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres

present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

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

Internal building materials should be assumed to contain asbestos until otherwise assessed.

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

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

The following limitations and restrictions to specific materials, installations and locations are commonly found during assessments of this nature, even if safe access can be provided through consultation with the client this inspection and report may not include the following areas:

- Risers / Ceiling, Floor or Wall Cavities, and Voids may be completely blocked or bricked in. Occasionally may only be detected if shown on building construction plans or during demolition
- Columns / Structural Elements these will not be penetrated if doing so will damage the stability
 of the building
- Roofs / External Areas these will not be checked if safe access cannot be achieved
- Confined Spaces these will not be checked if safe access cannot be achieved
- Restricted Access areas subject to restricted access will not be checked unless special arrangements have been made through the client within the remit of the assessment
- Live Plant or Electrical Installations live electrical installations including fuse boxes, electrical control cabinets, distribution panels etc. are not routinely checked for safety reasons. Electrical equipment will only be examined if it is locked off and an isolation certificate has been issued. Under exceptional circumstances, when arranged by the client, examination of non-isolated equipment may take place under the supervision of an electrician
- Live Refrigerators / Cold Rooms / Mechanical Equipment / Heater Units / Kilns may contain asbestos internally, which is not visible or accessible until the unit is isolated and dismantled

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

This report does not comment on, or present information regarding regulatory waste disposal practices and the associated waste disposal legislative requirements for hazardous materials. Prior to the disposal of any hazardous materials from site, clarification from the EPA should be sought by you, the client or the controller of the site (PCBU).

As part of the site inspection, materials may be suspected to be non-hazardous based on age and/or appearance. If any of these materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and sampling of this material, with analytical confirmation should be undertaken in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Materials including (but not limited to) e.g. fire retardants, vermiculite, sprayed coatings and insulations cannot be feasibly sampled in their entirety due to the heterogeneous nature of such materials. Sample results provided are only representative of the material sampled, and in that particular sample location. If any such materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and targeted area sampling, with analytical

confirmation should be undertake in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Should any other material suspected to contain asbestos or hazmat be found at the site, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.



NSW Health Infrastructure c/o Turner & Townsend Asbestos and Hazardous Materials Pre-Demolition Assessment

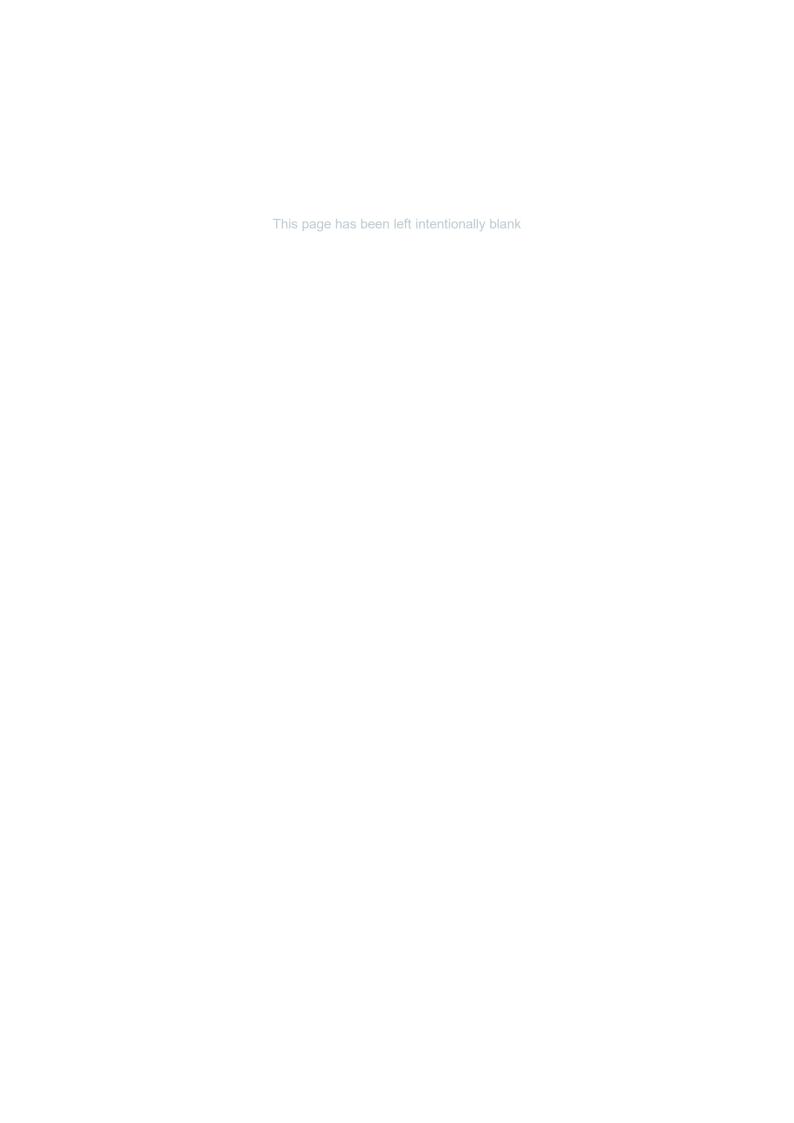
Cessnock House and Pathology

Cessnock Hospital, 24 View Street

Cessnock NSW 2325

23/08/2024





Asbestos and Hazardous Materials Pre-Demolition Assessment

Prepared for.

NSW Health Infrastructure c/o Turner & Townsend

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| R01 | Final | 23/08/2024 | Ben McCann | Aaron Holmes | Aaron Holmes |

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Executive Summary

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of Cessnock House and Pathology located at Cessnock Hospital, 24 View Street, Cessnock NSW 2325 (the site).

The purpose of the hazmat pre-demolition assessment was to identify and assess the health risk posed by hazmat, including asbestos containing materials (ACM) which may be encountered during future demolition/refurbishment works of the building. This is in order to meet the requirements of the relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes.

State/Territory legislation and industry guidance requires that information in this report is supplied on the understanding that the area surveyed is scheduled for demolition/refurbishment works, and that identified asbestos and other hazmat will be removed prior to, or as part of these works. Asbestos or other hazmat remaining in situ will need to be detailed in the asbestos and hazmat register and site-specific asbestos management plan designed to control the risks of exposure to hazardous materials.

The following hazardous building materials were identified at the time of the assessment:

| Property | Asbestos Containing Materials | | Containing Based Conta | Lead Containing Dust | Synthetic g Mineral Fibre | Poly- chlorinated Biphenyls | Ozone Depleting Substances |
|------------------------------------|-------------------------------------|---------|------------------------|----------------------------|---------------------------------|-----------------------------------|----------------------------------|
| | Non- Friable | Friable | | | | | |
| Cessnock House and Pathology | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Full details of the material assessments can be located within **Appendix A: Asbestos and Hazardous Materials Register**.

Areas of No Access or Limited Access were present and are described in Section 2.2. It should be presumed that hazmat are present in these areas until further inspection can confirm or refute their presence.

A number of other recommendations were made in the body of this report which address the ongoing management of hazardous building materials at this site.

This executive summary must be read in conjunction with this entire report and the limitations contained therein.

1. Introduction

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of Cessnock House and Pathology located at Cessnock Hospital, 24 View Street, Cessnock NSW 2325 (the site). Ben McCann of Tetra Tech conducted the assessment on the 01/07/2024.

Note: The building was occupied at the time of the assessment. As such, destructive/intrusive sampling methods were not able to be used during the survey. A destructive hazardous materials survey must be carried out when the building has been vacated prior to any demolition or refurbishment works.

1.1. Site Information

The asbestos and hazardous materials pre-demolition assessment was undertaken of Cessnock House and Pathology located at Cessnock Hospital, 24 View Street, Cessnock NSW 2325 (the site).

| Table 1: Site Information | | | | | | | | |
|---------------------------|--|--|--|--|--|--|--|--|
| Site: | Cessnock House and Pathology, Cessnock Hospital, 24 View Street, Cessnock NSW 2325 | | | | | | | |
| Age (Circa): | 1920s | | | | | | | |
| Site Description: | Hospital building and office | | | | | | | |

1.2. Objective and Scope of Works

The objectives/scope of the hazmat assessment was to:

- Identify the presence of the following confirmed and or suspected hazmat building materials within accessible areas of nominated building(s):
 - Asbestos Containing Materials (ACM);
 - Lead Based Paint (LBP);
 - Lead Containing Dust (LCD);
 - Synthetic Mineral Fibres (SMF);
 - Polychlorinated Biphenyls in fluorescent light capacitors (PCBs); and
 - Ozone Depleting Substances (ODSs).
- Collect samples of suspected ACM and/or LBP and LCD, for analysis by a NATA accredited laboratory;
- Visually determine the presence of SMF, PCB-containing light fittings and ODSs;
- Recommend risk management strategies to mitigate risks associated with ACM and other hazmat for removal and ongoing occupancy;
- Prepare a detailed assessment report in alignment with the requirements of relevant State/Territory Regulations, Compliance Codes, Codes of Practice and Guidance Notes, and
- Provide a copy of the assessment report in electronic (PDF) format to NSW Health Infrastructure.

2. Findings

The results of the asbestos and hazardous materials pre-demolition assessment are provided in a register format which is designed to provide readily available information about the presence of hazmat prior to demolition or refurbishment.

2.1. Assessment Findings

The findings of this assessment are presented in tabulated format, including building materials that have been photographed are depicted in **Appendix A: Asbestos and Hazardous Materials Register**.

The following significant key findings are noted:

2.1.1. Asbestos Containing Materials

| Location | Material Description | Risk Rating |
|---|-------------------------|-------------|
| External / GF / Cessnock House, East Wing / Veranda, Distribution Board | Electrical Components | Low |
| External / GF / Pathology / West Wall | Fibre Cement Sheeting | Low |
| Internal / GF / Cessnock House, East Wing / Fireplace, Infill Panel | Compressed Cement Sheet | Low |
| Internal / GF / Cessnock House, East Wing / Southeast Room, Distribution Board | Electrical Components | Low |
| Internal / GF / Pathology / Staff Room, Sink Pad | Bituminous Material | Low |

2.1.2. Lead Based Paint

| Location | Material Description | Risk Rating |
|--|----------------------|-------------|
| External / GF / Cessnock House, East Wing / Veranda, Timberwork | White Paint | Very Low |
| External / GF / Pathology / South Wall | Cream Paint | Very Low |
| Internal / GF / Cessnock House, East Wing / Window Frames | White Paint | Very Low |

2.1.3. Lead Containing Dust

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| Internal / GF / Cessnock House, East Wing / Ceiling Space | Dust | Medium |

2.1.4. Synthetic Mineral Fibres

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| External / GF / Cessnock House, West Wing / Hot Water Heater | Insulation Material | Very Low |

| External / GF / Cessnock House, West Wing / South, Water Heater | Insulation Material | Very Low |
|---|---------------------|----------|
| Internal / GF / Cessnock House, East Wing / Ceiling Space | Sarking Insulation | Very Low |
| Internal / GF / Cessnock House, East Wing / Northeast Covered Veranda Room, Ceiling | Sarking Insulation | Very Low |
| Internal / GF / Cessnock House, West Wing - Ceiling Space / Flexible Ductwork | Insulation Material | Very Low |
| Internal / GF / Cessnock House, West Wing - Ceiling Space / Roof Lining | Sarking Insulation | Very Low |
| Internal / GF / Cessnock House, West Wing - Ceiling Space / Throughout | Insulation Batts | Very Low |
| Internal / GF / Cessnock House, West Wing - Staff Kitchen / Hot Water Heater, Above Sink | Insulation Material | Very Low |

2.1.5. Polychlorinated Biphenyls

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| Internal / GF / Cessnock House, East Wing / Original Wall Light Fittings | Capacitor(s) | Very Low |

2.1.6. Ozone Depleting Substances

| Location | Material Description | Risk Rating |
|---|------------------------------------|-------------|
| External / GF / Cessnock House, West Wing / North Side, Below Stairs, AC Units | R22 Hydrochlorofluorocarbon (HCFC) | Very Low |
| Internal / Basement / Storage Area / Adjacent Entrance, Redundant AC Unit | R22 Hydrochlorofluorocarbon (HCFC) | Very Low |

2.2. Access Restrictions

Where no access or limited access areas have been identified it should be presumed that hazmat are present in these areas until further investigation can confirm or refute their presence.

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

2.2.1. No Access Areas

The following areas were not accessible at the time of the assessment:

Within live electrics, plant and ductwork throughout.

- Areas outside the scope of assessment.
- Internal, GF, Cessnock House, East Wing, Ceiling Space Above Rooms 0007, 0008 and 0013.
- Subfloor to Cessnock House, East Wing and Pathology restricted access.

2.2.2. Limited Access Areas

Access to the following areas was limited at the time of the assessment:

- Ceiling space visually inspected from accessible access hatches only;
- Wall voids:
- Below floors:
- Behind ceramic wall tiles;
- Beneath floor coverings;
- Subfloor spaces;
- Risers;
- Occupied areas;
- · Formwork to concrete slabs; and
- Roof.

3. Recommendations

The following recommendations are provided with respect to hazmat identified during the assessment of the site. This assessment only covers the parts of the site that have been accessed and been assessed in accordance with the approved scope.

3.1. Asbestos Containing Materials

The preference will always be to eliminate the asbestos hazards from the site and if it is practicable for the occupier to do so then asbestos removal should always be considered. ACM on site, which were found to be in a bonded and stable condition, may be managed in situ and periodically inspected if removal is not practicable.

If managed in situ, all identified or presumed ACM should be appropriately labelled, where possible, and regularly inspected to assess their condition and potential changes to health risk.

Prior to any demolition, partial demolition, renovation or refurbishment, ACM likely to be disturbed by those works should be removed in accordance with relevant codes of practices, compliance codes and legislation.

3.1.1. Asbestos Control Measures

- If the ACM is friable, in a poor/unstable condition and accessible with risk to health from exposure, immediate access restrictions should be applied, and removal is required as soon as practicable using a licensed contractor.
- If the ACM is friable, accessible but in a stable condition, removal is preferred. However, if removal is not immediately practicable, short-term control measures (i.e. restrict access, sealing, enclosure etc) may be employed until removal can be facilitated.
- If the ACM is non-friable and, in a poor/unstable condition, disturbance should be minimised. Removal or encapsulation may be appropriate controls. ACM which are found in localised areas and identified as damaged, consisting of small qualities of non-friable cement debris may not require the highest removal priority. The removal priority may be lowered due to a low risk of

- disturbance. Further confirmation can be obtained via asbestos fibre air monitoring where the result is found to be < 0.01 fibre/mL.
- For the instances above and further assessment of the risk, airborne fibre monitoring is recommended and can assist with decisions on the most appropriate, and urgency of, control measures.
- Where ACM is in a good, stable condition, ongoing maintenance and periodic inspection would be appropriate control measures.
- Remaining ACM identified or presumed should be appropriately labelled where possible. Those items should be regularly inspected to ensure they are not deteriorating and resulting in a potential risk to health.
- An asbestos management plan (AMP) should be created and maintained for all ACM that remain
 at the site to assist the persons conducting a business or undertaking (PCBU) with the
 management of these materials. The AMP must ensure that suitable control measures are
 implemented to prevent site personnel and others from being exposed to airborne asbestos fibres.
- Schedule periodic reassessment of ACM remaining on-site to monitor their aging/deterioration so that the PCBU can be alerted if any ACM require encapsulation or removal.
- Prior to any demolition or refurbishment works, all asbestos and hazardous materials identified and likely to be disturbed by demolition or refurbishment works should be removed in accordance with the legislative requirements and relevant codes of practice or compliance codes.
- During future demolition works, if any materials that are not referenced in this report and are suspected of containing asbestos are encountered, then works must cease and an asbestos hygienist should be notified to determine whether the material contains asbestos.

The recommendations, conclusions or stability of asbestos materials contained in this report shall not abrogate a person of their responsibility to work in accordance with statutory requirements, codes of practice, guidelines, material safety data sheets, work instructions or reasonable work practices.

3.2. Lead Based Paint

- Any works that are likely to disturb lead based paint surface should be undertaken in accordance with the Australian Standard (AS4361.2:2017), Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings.
- Prior to any disturbance of lead based paint a comprehensive risk assessment is to be conducted.
- Any loose and peeling lead based paint should be stabilised (using hand-held scrapers, drop cloths and wet misting where appropriate) and the paint chips disposed of as hazardous waste.
- Any remediation works that may generate dust or fumes (i.e. sanding, burning) must be performed
 under controlled conditions by a suitably resourced and experienced hazardous material/waste
 abatement contractor (e.g. a Class A licensed asbestos removal contractor).

3.3. Lead Containing Dust

- Any work processes involving lead containing dust must be undertaken in a manner to ensure that
 no worker is exposed to lead at concentrations above the workplace exposure standard (WES) of
 0.05mg/m³ over an eight-hour day.
- Prior to any disturbance of lead containing dust a comprehensive risk assessment is to be conducted.
- Lead containing dust removal works should include the use of high efficiency particulate air (HEPA)
 filtered vacuum cleaners and wet wiping techniques by a licensed contractor under controlled leadcontaining dust conditions in conjunction with air monitoring and clearances by a competent
 hygienist.

3.4. Synthetic Mineral Fibres

 SMF materials that are likely to be disturbed during any proposed demolition/refurbishment works should be handled in accordance with The National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)].

3.5. Polychlorinated Biphenyls

- It may not be considered feasible to inspect every light fitting within a premise as information available in the public domain on the identification of PCB-containing capacitors is limited. However, all metal capacitors should be treated as containing PCB unless determined otherwise
- All capacitors containing or suspected as PCB or the fluorescent light fittings likely to be disturbed during future works should be removed prior to any future demolition, partial demolition, renovation or refurbishment in accordance with Department of Occupational Health, Safety and Welfare, Safe Handling of PCB in Fluorescent Light Capacitors – 1993 and with the Polychlorinated Biphenyls Management Plan, Revised Edition April 2003.

3.6. Ozone Depleting Substances

Removal of refrigerants should be undertaken prior to any future demolition, partial demolition, renovation or refurbishment, where ODS's are likely to be disturbed. A licensed contractor who will recycle and reuse the refrigerant should decommission CFC and HCFC based equipment that is being disposed of in accordance with Association of Fluorocarbon Consumers and Manufacturers, The Australian Refrigeration and Air Conditioning Code of Good Practice – 1992 and the Australian Commonwealth Government Ozone Protection Act – 1989.

3.7. Training

Information, instruction and training must be provided to workers, contractors and others who may come into contact with hazardous materials in a workplace, either directly or indirectly.

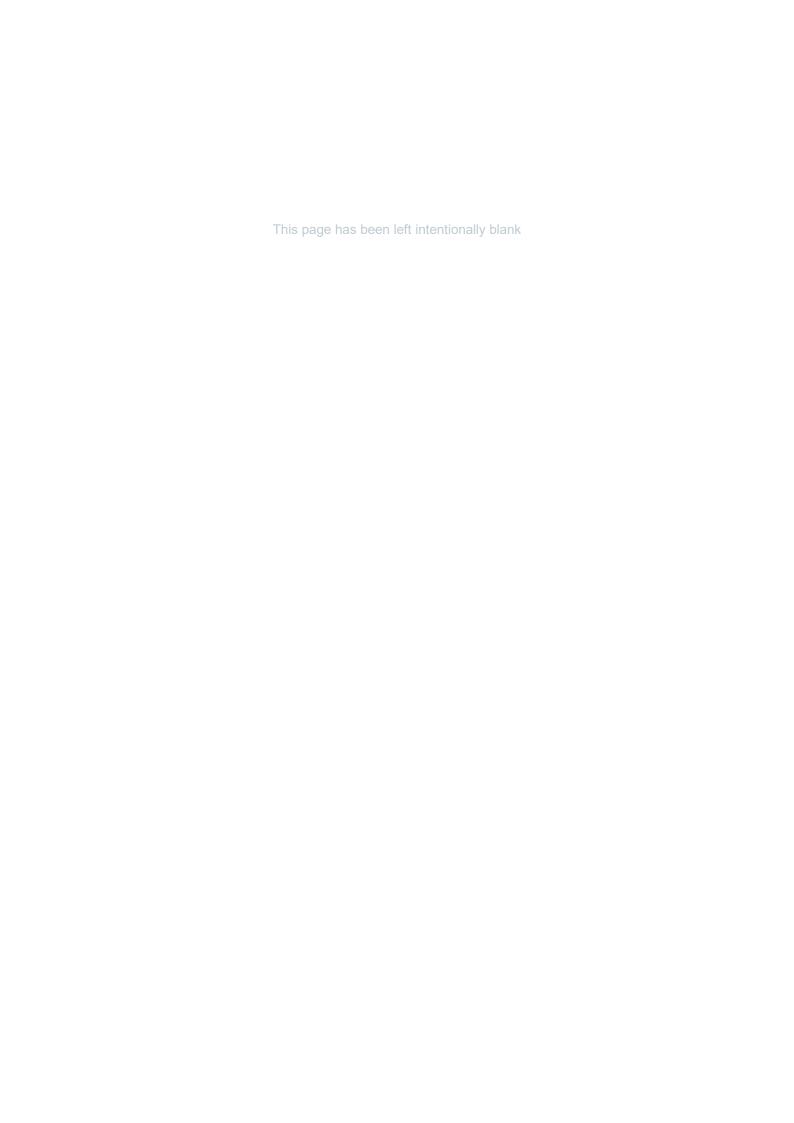
Depending on the circumstances this hazardous materials awareness training may include:

- The purpose of the training;
- The health risks of hazardous materials;
- The types, uses and likely occurrence of hazardous materials on site, in plant and/or equipment in the workplace;
- The trainee's roles and responsibilities for hazmat management;
- Where the asbestos and hazardous materials register is located and how it can be accessed;
- The timetable for removal of hazmat from the workplace;
- The processes and procedures to be followed to prevent exposure, including exposure from any accidental release of hazmat into the workplace;
- Where applicable, the correct use of maintenance and control measures, protective equipment and work methods to minimise the risks from hazmat, limit the exposure of workers and limit the spread of hazmat outside any work area;
- The National Exposure Standard (NES) and control levels for hazmat; and
- The purpose of any air monitoring or health surveillance that may occur.

Should any further suspect asbestos and/or hazmat become evident during future disturbance/ refurbishment works which have not been addressed in this report, Tetra Tech should be contacted immediately so that a WHS consultant can confirm the status of the suspect material/s.

| Tetra Tech is able to assist with all aspects of Risk Management for removal of asbestos and other hazardous materials resulting from these findings |
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Appendix A: Asbestos and Hazardous Materials Register



| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--------------------------|----------|--------------------------------|-------------------------|---------|----------|-----------|----------------|--|--|---------|
| External | GF / Cessnock House, East Wing / North Wall | Fibre Cement Sheeting | Asbestos | A10568 | No Asbestos Detected | - | 50 m² | - | - | - | Labelled as ACM. | 1 |
| External | GF / Cessnock House, East Wing / Veranda Ceiling | Fibre Cement Sheeting | Asbestos | A10567 | No Asbestos Detected | - | 100 m² | - | - | - | - | 2 |
| External | GF / Cessnock House, East Wing / Veranda, Distribution Board | Electrical Components | Asbestos | 754- NTLEN347071- 1339A1 | Suspected Asbestos | Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Confirm Status and remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 3 |
| External | GF / Cessnock House, East Wing / Veranda, East Side, Wall | Fibre Cement Sheeting | Asbestos | A10566 | No Asbestos Detected | - | 10 m² | - | - | - | - | 4 |
| External | GF / Cessnock House, East Wing / Windows | Window Caulking | Asbestos | A10572 | No Asbestos Detected | - | 8 Units | - | - | - | - | 5 |
| External | GF / Cessnock House, West Wing / South, Expansion Joint to Wall | Bituminous Material | Asbestos | A10570 | No Asbestos Detected | - | 5 m | - | - | - | - | 6 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------------|----------|---------------|------------------------------------|-------------|----------|-----------|----------------|--------------------------------------|---|---------|
| External | GF / Pathology / South and East Walls | Fibre Cement Sheeting | Asbestos | A10566.1 | No Asbestos Detected | - | 100 m² | - | - | - | - | 7 |
| External | GF / Pathology / Southern Entrance, Ceiling | Fibre Cement Sheeting | Asbestos | A10566.2 | No Asbestos Detected | - | 6 m² | - | - | - | - | 8 |
| External | GF / Pathology / Southern Entrance, Expansion Joints to Floor | Mastic Sealant | Asbestos | A10573 | No Asbestos Detected | - | 4 m | - | - | - | - | 9 |
| External | GF / Pathology / West Wall | Fibre Cement Sheeting | Asbestos | A10569 | Chrysotile Asbestos Detected | Non-Friable | 70 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 10 |
| Internal | GF / Cessnock House, East Wing / All Areas, Floor Below Vinyl Sheeting | Compressed Cement Sheeting | Asbestos | A10580 | No Asbestos Detected | - | 100 m² | - | - | - | - | 11 |
| Internal | GF / Cessnock House, East Wing / Ceiling Space | Dust | Asbestos | A10579 | No Asbestos Detected | - | 100 m² | - | - | - | - | 12 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|----------------------------|----------|--------------------------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Cessnock House, East Wing / Fireplace, Infill Panel | Compressed Cement Sheet | Asbestos | A10581 | Chrysotile Asbestos Detected | Non-Friable | 1 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 13 |
| Internal | GF / Cessnock House, East Wing / Floor Covering | Vinyl Sheet | Asbestos | 754- NTLEN347071- 1339A3 | No Asbestos Suspected | - | 100 m² | - | - | - | Suspected negative due to age and appearance. | 14 |
| Internal | GF / Cessnock House, East Wing / Packer, Between Door 8 & Slab | Fibre Cement sheet | Asbestos | A10566.3 | No Asbestos Detected | - | 0.25 m² | - | - | - | - | 15 |
| Internal | GF / Cessnock House, East Wing / Southeast Room, Distribution Board | Electrical Components | Asbestos | 754- NTLEN347071- 1339A4 | Suspected Asbestos | Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Confirm Status and remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 16 |
| Internal | GF / Cessnock House, East Wing / Sunroom Infill Panels, Between Windows | Fibre Cement Sheeting | Asbestos | A10582 | No Asbestos Detected | - | 6 m² | - | - | - | - | 17 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--------------------------|----------|--------------------------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Cessnock House, West Wing / All Areas, Floor Covering | Vinyl Sheet | Asbestos | 754- NTLEN347071- 1339A5 | No Asbestos Suspected | - | 200 m² | - | - | - | Suspected negative due to age and appearance. | 18 |
| Internal | GF / Cessnock House, West Wing / Comms Cupboard 0017, Walls | Fibre Cement Sheeting | Asbestos | A10574 | No Asbestos Detected | - | 20 m² | - | - | - | - | 19 |
| Internal | GF / Pathology / Staff Room, Sink Pad | Bituminous Material | Asbestos | A10571 | Chrysotile Asbestos Detected | Non-Friable | 0.5 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 20 |
| Internal | GF / Pathology / Toilets, Floor Covering | Vinyl Sheet (Cream) | Asbestos | 754- NTLEN347071- 1339A2 | No Asbestos Suspected | - | 12 m² | - | - | - | Suspected negative due to age and appearance. | 21 |
| Internal | Basement / Storage Area / Ceiling and Beams | Sprayed Vermiculite | Asbestos | A10575 | No Asbestos Detected | - | 200 m² | - | - | - | - | 22 |
| Internal | Basement / Storage Area / Subfloor | Fibre Cement Debris | Asbestos | A10577 | No Asbestos Detected | - | 40 m² | - | - | - | - | 23 |

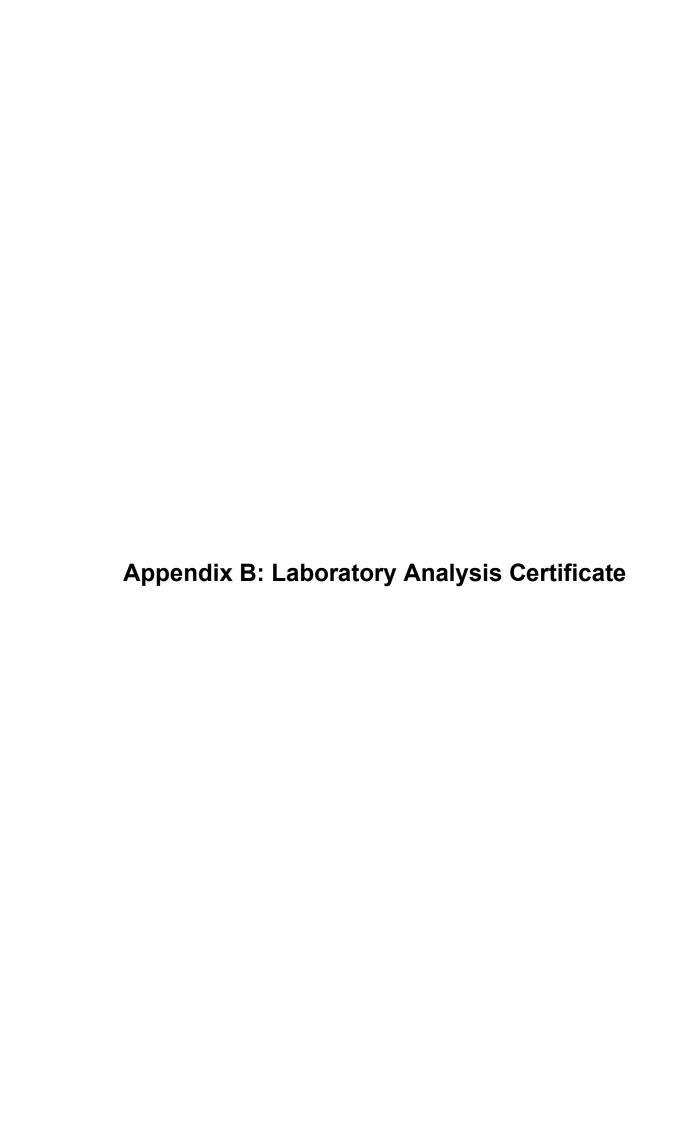
| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|------------|---------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | Basement / Storage Area / Subfloor | Fibre Cement Debris | Asbestos | A10576 | No Asbestos Detected | - | 40 m² | - | - | - | - | 24 |
| Internal | Basement / Storage Area / West, Pump | Gasket Material | Asbestos | A10578 | No Asbestos Detected | - | 2 Units | - | - | - | - | 25 |
| External | GF / Cessnock House, East Wing / Veranda, Timberwork | White Paint | Lead Paint | L18410 | Lead Detected (2.6 % w/w) | - | 30 m² | Fair | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | . 26 |
| External | GF / Cessnock House, East Wing / Walls | Cream Paint | Lead Paint | L18411 | Lead Detected (0.02% w/w) | - | 150 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 27 |
| External | GF / Pathology / South Wall | Cream Paint | Lead Paint | L18412 | Lead Detected (0.19% w/w) | - | 70 m² | Fair | Very Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 28 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|------------|--------------------------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / Cessnock House, East Wing / Walls | Cream Paint | Lead Paint | L18415 | Lead Detected (0.02% w/w) | - | 400 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 29 |
| Internal | GF / Cessnock House, East Wing / Window Frames | White Paint | Lead Paint | L18414 | Lead Detected (2.0% w/w) | - | 10 Units | Stable | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 30 |
| Internal | GF / Cessnock House, East Wing / Ceiling Space | Dust | Lead Dust | L18413 | Lead Detected (990 mg/kg) | - | 100 m² | Poor | Medium | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 31 |
| External | GF / Cessnock House, West Wing / Hot Water Heater | Insulation Material | SMF | 754- NTLEN347071- 1493S5 | Suspected SMF | - | 2 Units | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 32 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|--------|--------------------------------|------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| External | GF / Cessnock House, West Wing / South, Water Heater | Insulation Material | SMF | 754- NTLEN347071- 1339S1 | Suspected SMF | - | 1 Unit | - | Very Low | | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 33 |
| Internal | GF / Cessnock House, East Wing / Ceiling Space | Sarking Insulation | SMF | 754- NTLEN347071- 1339S2 | Suspected SMF | - | 120 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 34 |
| Internal | GF / Cessnock House, East Wing / Northeast Covered Veranda Room, Ceiling | Sarking Insulation | SMF | 754- NTLEN347071- 1339S3 | Suspected SMF | - | 30 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 35 |
| Internal | GF / Cessnock House, West Wing - Ceiling Space / Flexible Ductwork | Insulation Material | SMF | 754- NTLEN347071- 1493S3 | Suspected SMF | - | 60 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 36 |
| Internal | GF / Cessnock House, West Wing - Ceiling Space / Roof Lining | Sarking Insulation | SMF | 754- NTLEN347071- 1493S4 | Suspected SMF | - | 380 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 37 |
| Internal | GF / Cessnock House, West Wing - Ceiling Space / Throughout | Insulation Batts | SMF | 754- NTLEN347071- 1493S2 | Suspected SMF | - | 400 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 38 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|---|--------|--------------------------------|------------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| Internal | GF / Cessnock House, West Wing - Staff Kitchen / Hot Water Heater, Above Sink | Insulation Material | SMF | 754- NTLEN347071- 1493S1 | Suspected SMF | - | 1 Unit | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 39 |
| Internal | GF / Cessnock House, East Wing / Original Wall Light Fittings | Capacitor(s) | PCB | 754- NTLEN347071- 1339P1 | Suspected PCB | - | 6 Units | - | Very Low | - | PCB-containing capacitors are suspected due to age & appearance of electrical fittings. Remove and dispose of in accordance with the Polychlorinated Biphenyls Management Plan, Revised Edition April 2003. | 40 |
| External | GF / Cessnock House, East Wing / North, AC Units | R410A Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- 1339O1 | Non ODS Refrigerant | - | 3 Units | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 41 |
| External | GF / Cessnock House, West Wing / North Side, Below Stairs, AC Units | R22 Hydrochlorofluoroca rbon (HCFC) | ODS | 754- NTLEN347071- 1339O5 | ODS Refrigerant | - | 2 Units | - | Very Low | - | Hydrochlorofluorocarbon (HCFC), ozone depleting substances identified in the assessment that require removal during refurbishment or demolition works should be appropriately decanted and disposed of by a licensed contractor in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012. | 42 |
| External | GF / Cessnock House, West Wing / North, AC Units | R32 Refrigerant | ODS | 754- NTLEN347071- 1339O6 | Non ODS Refrigerant | - | 2 Units | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 43 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|---|-----------|--|------------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| External | GF / Cessnock House, West Wing / South, AC Units | R410A Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- 1339O3 | Non ODS Refrigerant | - | 3 Units | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 44 |
| External | GF / Pathology / East and West, AC Units | R410A Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- 1339O2 | Non ODS Refrigerant | - | 7 Units | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 45 |
| Internal | Basement / Storage Area / Adjacent Entrance, Redundant AC Unit | R22 Hydrochlorofluoroca rbon (HCFC) | ODS | 754- NTLEN347071- 133904 | ODS Refrigerant | - | 1 Unit | - | Very Low | - | Hydrochlorofluorocarbon (HCFC), ozone depleting substances identified in the assessment that require removal during refurbishment or demolition works should be appropriately decanted and disposed of by a licensed contractor in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012. | 46 |
| Internal | GF / Cessnock House, East Wing / Ceiling Space Above Rooms 0007, 0008 and 0013 | - | No Access | 754- NTLEN347071- 1Cessnock House NA2 | - | - | - | - | - | - | No safe access in occupied areas. Damaged asbestos-containing fibre cement sheeting previously identified (Practical Environmental Solutions, 2018) in this area. Potential hazardous materials may be present within inaccessible areas. | 47 |
| Internal | GF / Cessnock House, East Wing and Pathology / Subfloor | - | No Access | 754- NTLEN347071- 1Cessnock House NA3 | - | - | - | - | - | - | Restricted access. Potential hazardous materials may be present within inaccessible areas. | 48 |







Bulk Identification Report

Job No: 754-NTLEN347071-1 Bulk ID Report Cessnock Hospital - Pathology and Cessnock House 05072024

Client: NSW Health Infrastructure

Client Address: 1 Reserve Rd, St Leonards NSW 2065

Contact: Les Palma

E-mail: Les.Palma@turntown.com

Date Sampled:02-07-2024Accredited for compliance with ISO/IEC 17025 - TestingDate Analysed:04-07-2024Accreditation No:2220

Date Analysed:04-07-2024Date Authorised:08-07-2024Sampled By:Ben McCann

Site: Cessnock Hospital - Pathology and Cessnock House:

Cessnock Hospital, 24 View St, Cessnock, NSW

Please note: Where you have provided the samples for analysis, Tetra Tech Coffey Pty Ltd does not take any responsibility for the quality of such samples. This report relates exclusively to the samples analysed by Tetra Tech Coffey Pty Ltd and as such only the samples submitted or collected for analysis have been considered in presenting these results. The data and results contained in this report are not representative of the site, product or source material as a whole. Tetra Tech Coffey Pty Ltd does not make any warranty or representation in

Corporate Site No:16909

relation to the site, product or source material as a whole. If you suspect any material to contain asbestos, then you must immediately stop the works and activities at the site or in respect of the materials and engage Tetra Tech Coffey Pty Ltd or another suitably trained asbestos

hygienist to sample, assess or re-assess (as the case may be) the material suspected to contain asbestos.

Asbestos in Bulk Samples and Non-homogenous Material

Test Method: Tetra Tech Coffey Pty Ltd analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in

accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi-quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Tetra Tech Coffey Pty Ltd's NATA

approved SOP WILAB1 sample retention periods are set at 1 month for all samples from the date of analysis.

Analysed At: Tetra Tech Coffey Pty Ltd Laboratory, Level 20, Tower B, Citadel Towers 799 Pacific Highway Chatswood NSW 2067

Total Samples: 17

Approved Identifier
Matthew Tang

Approved Signatory
Matthew Tang

| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|---|------------------|---|
| A10566 | External, GF, Cessnock House, East Wing, Verandah, East Side, Wall, Fibre Cement Sheeting - White painted beige layered fibre cement sheet material | 10 x 7 x 3 mm | No asbestos fibres detected Organic fibres detected |
| A10567 | External, GF, Cessnock House, East Wing, Verandah Ceiling, Fibre Cement Sheeting - White painted beige layered fibre cement sheet material | 15 x 13 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A10568 | External, GF, Cessnock House, East Wing, North, Wall, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 62 x 51 x 5 mm | No asbestos fibres detected Organic fibres detected |
| A10569 | External, GF, Pathology, West, Wall, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 12 x 11 x 3 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A10570 | External, GF, Cessnock House, West Wing, South, Expansion Joint to Wall, Bituminous Material - Black sticky bituminous material | 37 x 23 x 11 mm | No asbestos fibres detected |
| A10571 | Internal, GF, Pathology, Staff Room, Sink Pad, Bituminous Material - Black bituminous material | 38 x 19 x 3 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A10572 | External, GF, Cessnock House, East Wing, Windows Throughout, Window Caulking - White painted amber hardened mastic material | 12 x 10 x 4 mm | No asbestos fibres detected |
| A10573 | External, GF, Pathology, Southern Entrance, Expansion Joints to Floor, Mastic Sealant - Grey rubbery mastic material | 27 x 17 x 10 mm | No asbestos fibres detected |
| A10574 | Internal, GF, Cessnock House, West Wing, Comms Cupboard 0017, Walls - Beige layered fibre cement sheet material | 61 x 52 x 4 mm | No asbestos fibres detected Organic fibres detected |
| A10575 | Internal, BASEMENT, Storage Area, Ceiling and Beams, Sprayed Vermiculite - Beige powdery mica vermiculite material | 110 x 38 x 20 mm | No asbestos fibres detected Organic fibres detected |

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| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|--|-----------------|--|
| A10576 | Internal, BASEMENT, Storage Area, Subfloor, Throughout, Fibre Cement Debris - Beige layered fibre cement sheet material | 67 x 51 x 5 mm | No asbestos fibres detected Organic fibres detected |
| A10577 | Internal, BASEMENT, Storage Area, Subfloor, Throughout, Fibre Cement Debris - Beige layered fibre cement sheet material | 75 x 55 x 20 mm | No asbestos fibres detected Organic fibres detected |
| A10578 | Internal, BASEMENT, Storage Area, West, Pump, Gasket Material - Green fibrous gasket material | 19 x 17 x 3 mm | No asbestos fibres detected Organic fibres detected |
| A10579 | Internal, GF, Cessnock House, East Wing, Ceiling Space, Throughout, Dust - Brown non-homogenous fibrous dust & debris | 15.5 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A10580 | Internal, GF, Cessnock House, East Wing, All Areas, Floor Below Vinyl Sheeting, Compressed Cement Sheeting - Beige layered fibre cement sheet material | 11 x 7 x 3 mm | No asbestos fibres detected Organic fibres detected |
| A10581 | Internal, GF, Cessnock House, East Wing, Fire Place, Infill Panel, Compressed Cement Sheet - Grey compressed fibre cement sheet material | 10 x 7 x 3 mm | Chrysotile (white asbestos) detected |
| A10582 | Internal, GF, Cessnock House, East Wing, Sunroom infill panels, between windows, Fibre Cement Sheeting - White painted beige layered fibre cement sheet material | 11 x 9 x 3 mm | No asbestos fibres detected Organic fibres detected |

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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 355686

| Client Details | |
|----------------|---|
| Client | Tetra Tech Coffey Pty Ltd |
| Attention | Ben McCann |
| Address | Level 20, Tower B, Citadel Tower, 799 Pacific Hwy, Chatswood, NSW, 2067 |

| Sample Details | |
|--------------------------------------|--|
| Your Reference | 754-NTLEN347071-1 Cessnock Hospital-Pathology/Cess |
| Number of Samples | 6 Paint, 1 Dust |
| Date samples received | 04/07/2024 |
| Date completed instructions received | 04/07/2024 |

Analysis Details

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

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

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

| Report Details | | | | | | |
|--|---|--|--|--|--|--|
| Date results requested by | 11/07/2024 | | | | | |
| Date of Issue | 22/07/2024 | | | | | |
| Reissue Details | This report replaces R00 created on 11/07/2024 due to: revised report with sample #7 removed as per client request. | | | | | |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full. | | | | | | |
| Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * | | | | | | |

Results Approved By

Giovanni Agosti, Group Technical Manager Tabitha Roberts, Senior Chemist **Authorised By**

Nancy Zhang, Laboratory Manager

Envirolab Reference: 355686 Revision No: R01



| Lead in Paint | | | | | | |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference | | 355686-1 | 355686-2 | 355686-3 | 355686-5 | 355686-6 |
| Your Reference | UNITS | L18410 | L18411 | L18412 | L18414 | L18415 |
| Date Sampled | | 03/07/2024 | 03/07/2024 | 03/07/2024 | 03/07/2024 | 03/07/2024 |
| Type of sample | | Paint | Paint | Paint | Paint | Paint |
| Date prepared | - | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 |
| Date analysed | - | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 |
| Lead in paint | %w/w | 2.6 | 0.02 | 0.19 | 2.0 | 0.02 |

Envirolab Reference: 355686

Revision No: R01

| Lead (dust) | | |
|----------------|-------|------------|
| Our Reference | | 355686-4 |
| Your Reference | UNITS | L18413 |
| Date Sampled | | 03/07/2024 |
| Type of sample | | Dust |
| Date prepared | - | 09/07/2024 |
| Date analysed | - | 09/07/2024 |
| Lead | mg/kg | 990 |

Envirolab Reference: 355686 Revision No: R01

| Method ID | Methodology Summary |
|--------------------|--|
| Metals-020 | Determination of various metals by ICP-AES. |
| Metals-020/021/022 | Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS. |

Envirolab Reference: 355686 Page | 4 of 8

Revision No: R01

| QUALITY CONTROL: Lead in Paint | | | | | Duplicate | | | Spike Recovery % | | |
|--------------------------------|-------|-------|--------------------|------------|-----------|------|------|------------------|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date prepared | - | | | 10/07/2024 | [NT] | | [NT] | [NT] | 10/07/2024 | |
| Date analysed | - | | | 10/07/2024 | [NT] | | [NT] | [NT] | 10/07/2024 | |
| Lead in paint | %w/w | 0.005 | Metals-020/021/022 | <0.005 | [NT] | | [NT] | [NT] | 91 | |

Envirolab Reference: 355686

Revision No: R01

Page | 5 of 8

| QUALITY CONTROL: Lead (dust) | | | | | | Duplicate | | | Spike Recovery % | |
|------------------------------|-------|-----|------------|------------|------|-----------|------|------|------------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date prepared | - | | | 09/07/2024 | [NT] | | [NT] | [NT] | 09/07/2024 | |
| Date analysed | - | | | 09/07/2024 | [NT] | | [NT] | [NT] | 09/07/2024 | |
| Lead | mg/kg | 1 | Metals-020 | <1 | [NT] | | [NT] | [NT] | 105 | |

Envirolab Reference: 355686

Revision No: R01

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| Result Definiti | ons |
|-----------------|---|
| 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 |

Envirolab Reference: 355686 Page | 7 of 8

| Quality Contro | ol Definitions |
|------------------------------------|--|
| Blank | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples. |
| Duplicate | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable. |
| Matrix Spike | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| LCS (Laboratory Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample. |
| Surrogate Spike | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples. |

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

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

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

Envirolab Reference: 355686 Page | 8 of 8

Appendix C: Photographs





Line ID 1: External, GF, Cessnock House, East Wing, North Wall, Fibre Cement Sheeting - No Asbestos Detected



Line ID 2: External, GF, Cessnock House, East Wing, Veranda Ceiling, Fibre Cement Sheeting - No Asbestos Detected



Line ID 3: External, GF, Cessnock House, East Wing, Veranda, Distribution Board, Electrical Components -Suspected Asbestos



Line ID 4: External, GF, Cessnock House, East Wing, Veranda, East Side, Wall, Fibre Cement Sheeting - No Asbestos Detected



Line ID 5: External, GF, Cessnock House, East Wing, Windows, Window Caulking - No Asbestos Detected



Line ID 6: External, GF, Cessnock House, West Wing, South, Expansion Joint to Wall, Bituminous Material - No Asbestos Detected



Line ID 7: External, GF, Pathology, South and East Walls, Fibre Cement Sheeting - No Asbestos Detected



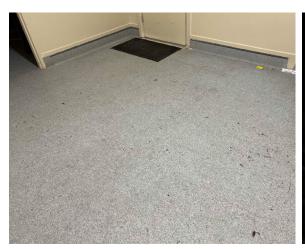
Line ID 8: External, GF, Pathology, Southern Entrance, Ceiling, Fibre Cement Sheeting - No Asbestos Detected



Line ID 9: External, GF, Pathology, Southern Entrance, Expansion Joints to Floor, Mastic Sealant -No Asbestos Detected



Line ID 10: External, GF, Pathology, West Wall, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 11: Internal, GF, Cessnock House, East Wing, All Areas, Floor Below Vinyl Sheeting, Compressed Cement Sheeting - No Asbestos Detected



Line ID 12: Internal, GF, Cessnock House, East Wing, Ceiling Space, Dust - No Asbestos Detected



Line ID 13: Internal, GF, Cessnock House, East Wing, Fireplace, Infill Panel, Compressed Cement Sheet - Chrysotile Asbestos Detected



Line ID 14: Internal, GF, Cessnock House, East Wing, Floor Covering, Vinyl Sheet - No Asbestos Suspected



Line ID 15: Internal, GF, Cessnock House, East Wing, Packer, Between Door 8 & Slab, Fibre Cement sheet
- No Asbestos Detected



Line ID 15.1: Internal, GF, Cessnock House, East Wing, Packer, Between Door 8 & Slab, Fibre Cement sheet - No Asbestos Detected



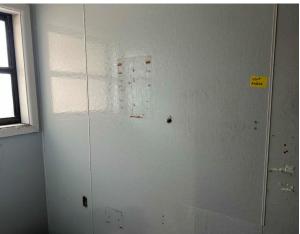
Line ID 16: Internal, GF, Cessnock House, East Wing, Southeast Room, Distribution Board, Electrical Components - Suspected Asbestos



Line ID 17: Internal, GF, Cessnock House, East Wing, Sunroom Infill Panels, Between Windows, Fibre Cement Sheeting - No Asbestos Detected



Line ID 18: Internal, GF, Cessnock House, West Wing, All Areas, Floor Covering, Vinyl Sheet - No Asbestos Suspected



Line ID 19: Internal, GF, Cessnock House, West Wing, Comms Cupboard 0017, Walls, Fibre Cement Sheeting - No Asbestos Detected



Line ID 20: Internal, GF, Pathology, Staff Room, Sink Pad, Bituminous Material - Chrysotile Asbestos Detected



Line ID 21: Internal, GF, Pathology, Toilets, Floor Covering, Vinyl Sheet (Cream) - No Asbestos Suspected



Line ID 22: Internal, Basement, Storage Area, Ceiling and Beams, Sprayed Vermiculite - No Asbestos Detected



Line ID 23: Internal, Basement, Storage Area, Subfloor, Fibre Cement Debris - No Asbestos Detected



Line ID 24: Internal, Basement, Storage Area, Subfloor, Fibre Cement Debris - No Asbestos Detected



Line ID 25: Internal, Basement, Storage Area, West, Pump, Gasket Material - No Asbestos Detected



Line ID 26: External, GF, Cessnock House, East Wing, Veranda, Timberwork, White Paint - Lead Detected (2.6 % w/w)



Line ID 27: External, GF, Cessnock House, East Wing, Walls, Cream Paint - Lead Detected (0.02% w/w)



Line ID 28: External, GF, Pathology, South Wall, Cream Paint - Lead Detected (0.19% w/w)



Line ID 29: Internal, GF, Cessnock House, East Wing, Walls, Cream Paint - Lead Detected (0.02% w/w)



Line ID 30: Internal, GF, Cessnock House, East Wing, Window Frames, White Paint - Lead Detected (2.0% w/w)



Line ID 31: Internal, GF, Cessnock House, East Wing, Ceiling Space, Dust - Lead Detected (990 mg/kg)



Line ID 32: External, GF, Cessnock House, West Wing, Hot Water Heater, Insulation Material -Suspected SMF



Line ID 33: External, GF, Cessnock House, West Wing, South, Water Heater, Insulation Material - Suspected SMF



Line ID 34: Internal, GF, Cessnock House, East Wing, Ceiling Space, Sarking Insulation - Suspected SMF



Line ID 35: Internal, GF, Cessnock House, East Wing, Northeast Covered Veranda Room, Ceiling, Sarking Insulation - Suspected SMF



Line ID 36: Internal, GF, Cessnock House, West Wing - Ceiling Space, Flexible Ductwork, Insulation Material - Suspected SMF



Line ID 37: Internal, GF, Cessnock House, West Wing - Ceiling Space, Roof Lining, Sarking Insulation - Suspected SMF



Line ID 38: Internal, GF, Cessnock House, West Wing - Ceiling Space, Throughout, Insulation Batts - Suspected SMF



Line ID 39: Internal, GF, Cessnock House, West Wing - Staff Kitchen, Hot Water Heater, Above Sink, Insulation Material -Suspected SMF



Line ID 40: Internal, GF, Cessnock House, East Wing, Original Wall Light Fittings, Capacitor(s) - Suspected PCB



Line ID 41: External, GF, Cessnock House, East Wing, North, AC Units, R410A Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 42: External, GF, Cessnock House, West Wing, North Side, Below Stairs, AC Units, R22 Hydrochlorofluorocarbon (HCFC) - ODS Refrigerant



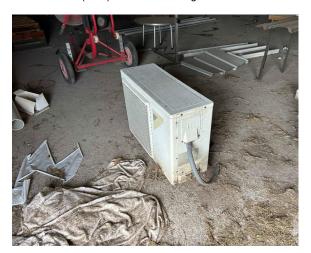
Line ID 43: External, GF, Cessnock House, West Wing, North, AC Units, R32 Refrigerant - Non ODS Refrigerant



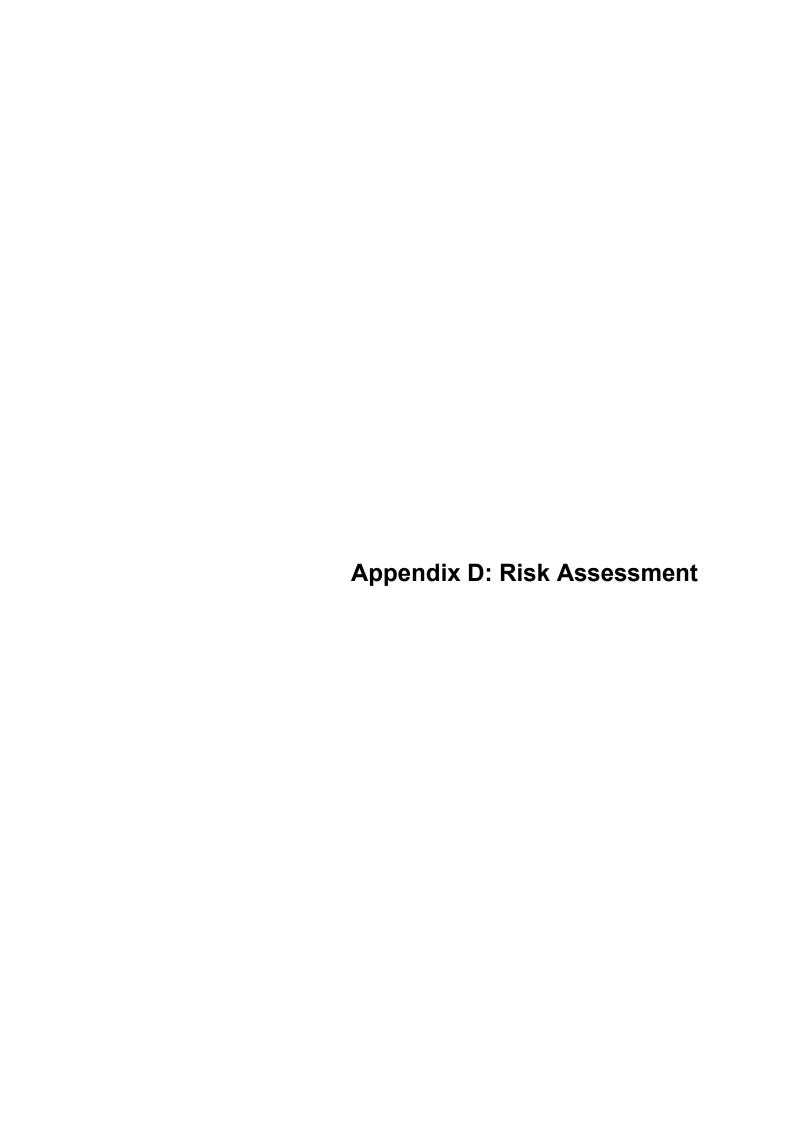
Line ID 44: External, GF, Cessnock House, West Wing, South, AC Units, R410A Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 45: External, GF, Pathology, East and West, AC Units, R410A Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 46: Internal, Basement, Storage Area, Adjacent Entrance, Redundant AC Unit, R22 Hydrochlorofluorocarbon (HCFC) - ODS Refrigerant





Risk Assessment

The risk assessment is explained, in the tables below. Our semi-quantitative risk assessment borrows elements from the materials risk assessment documented in HSG264: Asbestos: The survey guide – HSE and the priority risk assessment documented in HSG 227: A comprehensive guide to Managing Asbestos in premises – HSE, providing an element of quantification to the qualitative nature of site risk assessment.

Some of the elements of these well documented risk assessments have been omitted. Most notably the asbestos type from the materials risk assessment, as all types of asbestos are listed by the International Agency for Research on Cancer (IARC) as Type 1 Carcinogens. In addition, we have omitted the maintenance activity from HSG 277. The reason being that human risk factors associated with maintenance activities are often difficult to assess in-situ and require detailed input from the Person in Control of a Business of Undertaking (PCBU).

The risk assessment then takes into account all other Hazardous materials and utilizes similar algorithms to create a risk assessment for those materials.

The asbestos containing material risk score is a quantitative assessment determined by the sum of the scores based on the material assessment and the likelihood of exposure, i.e. Risk score = Material Score + Location Score (out of as possible 18).

An explanation of the material assessment and likelihood of exposure scores can be found in the tables below.

Table 2 - Risk Scores

| Overall Risk Assessment Score | Overall Risk Rating |
|-------------------------------|---------------------|
| 0 – 4 | Very Low |
| 5 – 8 | Low |
| 9 – 13 | Moderate |
| 14 – 18 | High |

Table 3 – Product Type (or debris)

| Examples of Materials - Asbestos | Examples of Materials - Hazmat | Score |
|--|--|-------|
| Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement etc.) | SMF composite products / insulation batts / woven products, Lead paint, Lead Compounds/Alloys/Products, Small PCB containing electrical capacitors | 1 |
| Asbestos insulating board, mill boards, other low- density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt | RCF woven/treated products, Lead paint flakes, Industrial PCB containing industrial transformers | 2 |
| Thermal insulation (e.g. pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing | RCF loose fill products, Lead dust, PCB containing oils in bulk storage, or uncontained spills. | 3 |

Table 4 – Extent of Damage or Deterioration

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Good condition: no visible damage | Good condition: no visible damage | 0 |
| Low damage: a few scratches or surface marks; broken edges on boards, tiles etc. | Low damage: a few scratches or surface marks; Peeling paint, Large paint flakes, Redundant PCB container in accessible area out of electrical product | 1 |
| Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres | Medium damage: significant breakage of materials or several small areas where material has been damaged, good condition sprays and insulation, large amounts of fine flaking paint and debris, Leaking PCB containing electrical equipment | 2 |
| High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris | High damage or delamination of materials. Visible debris, Lead dust, Pooling PCB oils, leaking oil bulk containers | 3 |

Table 5 – Surface type and treatment

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles | SMF/RCF composite products, insulation products sealed behind a non-friable barrier, Lead paints <0.1%w/w, lead, compounds/ alloys/ products <0.1%w/w lead, PCB oils <2mg/kg | 0 |
| Enclosed sprays and lagging, asbestos insulating board (with exposed face painted or encapsulated), asbestos cement sheets etc. | SMF/RCF woven and insulation products, Lead paints ≥0.1%w/w and <0.25%w/w, PCB ≥2mg/kg and <50mg/kg in oil | 1 |
| Unsealed asbestos insulating board, or encapsulated lagging and sprays | SMF/RCF heat-treated insulation products, Lead paints ≥0.25%w/w and <1.0%w/w, Lead dusts above recommended clearance indicator based on AS/NZS4361.2. PCB ≥50mg/kg and <10,000mg/kg in oil | 2 |
| Unsealed laggings and sprayed asbestos | Lead dusts a multiple of at least 5 times above recommended clearance indicator based on AS/NZS4361.2, Lead paint >1.0%, ≥10,000mg/kg in oil (10%w/w) | 3 |

 $^{^{\}rm 2}$ Lead and PCB refers specifically to the analysis result





Legislative Requirements

The assessment, and preparation of this report have been undertaken in accordance with the requirements of State/Territories legislation and standards outlined below.

State/Territories Relevant Legislation

| States & Territories | Acts | Legislation |
|------------------------------------|--|--|
| Australian Capital Territory (ACT) | ACT Work Health & Safety Act 2011 | ACT Work Health & Safety Regulation 2011 |
| New South Wales (NSW) | NSW Work Health & Safety Act 2011 | NSW Work Health & Safety Regulation 2017 |
| Northern Territory (NT) | NT Work Health & Safety Act 2011 | NT Work Health & Safety Regulation 2017 |
| Queensland (QLD) | QLD Work Health & Safety Act 2011 | QLD Work Health & Safety Regulation 2011 |
| South Australia (SA) | SA Work Health & Safety Act 2012 | SA Work Health & Safety Regulation 2012 |
| Tasmania (TAS) | Tasmanian Work Health & Safety Act 2012 | Tasmanian Work Health & Safety Regulation 2012 |
| Victoria (VIC) | Victorian Occupational Health and Safety Act 2004 | Victorian Occupational Health and Safety Regulation 2017 |
| Western Australia (WA) | Occupational Safety and Health Act 1984 | Occupational Safety and Health Regulation 1996 |

States/Territories Code of Practices & Compliance Codes

| States & Territories | Codes of Practices & Compliance Codes | |
|------------------------------------|--|---|
| Australian Capital Territory (ACT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| New South Wales (NSW) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Northern Territory (NT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Queensland (QLD) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| South Australia (SA) | Code of Practice: How to manage and Control asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Tasmania (TAS) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Victoria (VIC) | Compliance Code: Managing Asbestos in Workplaces. | Compliance Code: Removing Asbestos in Workplaces. |

| Western Australia (WA) | Code of Practice for Management and Control of Asbestos in Workplaces [NOHSC:2018(2005)]. | Code of Practice for the Safe Removal of Asbestos [NOHSC:2002(2005)] |
|------------------------|--|--|
|------------------------|--|--|

The Victorian Compliance Codes align with the intent of the SafeWork Australia Model Code of Practice

Hazardous Materials Standard & Guidance Notes

| Hazardous Material | Guidance Notes |
|-------------------------------|---|
| Lead Based Paint | AS/NZS <i>4361.2:2017</i> Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings |
| Lead Containing Dust | National Environmental Protection Measure (NEPM) (NEPC,1999) as updated in 2013. |
| Synthetic Mineral Fibres | National Occupational Health and Safety Commission (1990) Synthetic Mineral Fibres; National Standard for Synthetic Mineral Fibres; and the National Code of Practice for the Safe Use of Synthetic Mineral Fibres |
| Polychlorinated Biphenyls | ANZECC (1997) Identification of PCB-containing Capacitors: An Information Booklet for Electricians and Electrical Contractors |
| Ozone Depleting Substances | UNEP (2001) Inventory of Trade Names of Chemical Products containing Ozone Depleting Substances and their Alternatives |

Each section is to be read in conjunction with the whole of this report, including the appendices.

Appendix F: Methodology



Methodology

Hazmat surveys are undertaken considering a risk management approach, in accordance with relevant statutory regulations and relevant Codes of Practice. A risk assessment was conducted based on a number of factors associated with hazmat identified during the survey and prioritised through Risk and Action Classifications.

The assessment involved the onsite investigation for the presence of ACM, SMF, LBP systems, LCD, PCB and ODS including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs). Information was collected from the site owners/occupiers/tenants where available on relevant issues pertaining to the site. Based on the available data and the status at the time of inspection, where items were identified, visual and/or analytical characterisation (where required) was performed and reported in **Appendix A: Asbestos and Hazardous Materials Register**.

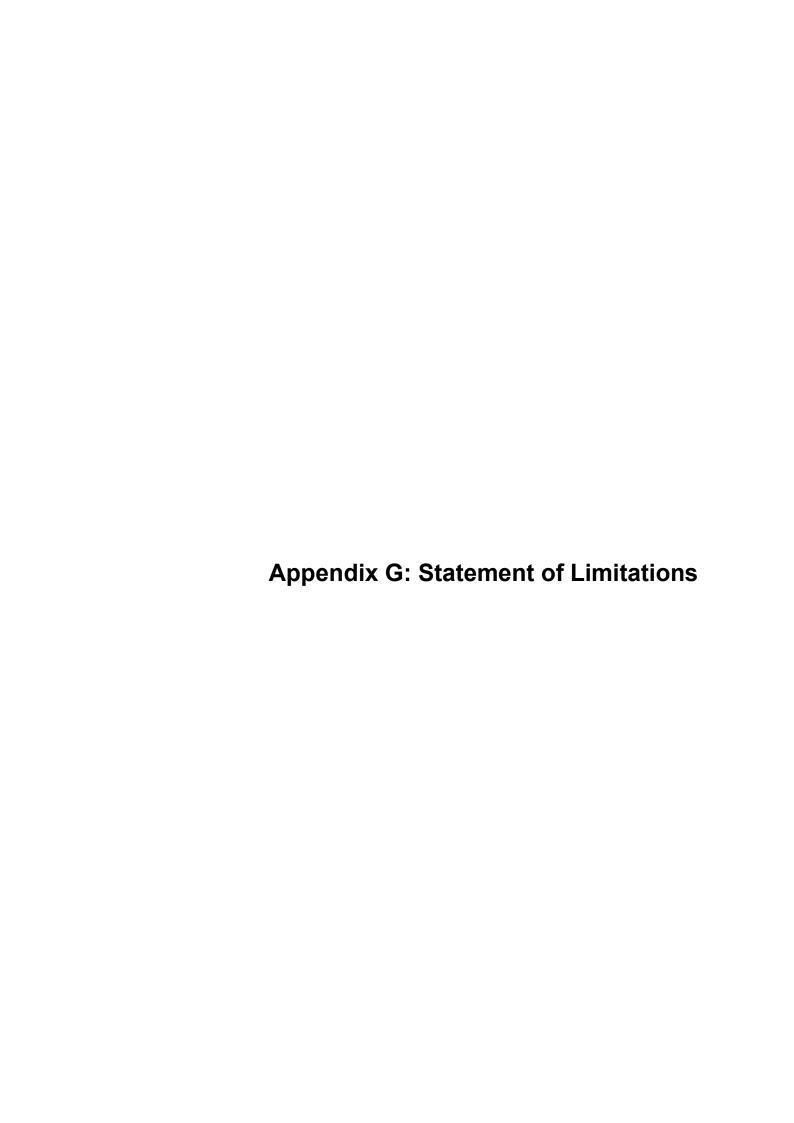
The assessment was conducted on the basis of the condition, type and location of the materials at the time of inspection. The scope of this investigation did not allow intrusive sampling techniques to be undertaken in all locations, and consequently the register may have limitations as a reference document for the purposes of renovation or demolition.

Only 'typical' suspected material occurrences are inspected and sampled. Sampling is undertaken on a representative basis, for example, the inspection of one fire door of the same type within the same area is undertaken (i.e. not every 'matching' fire door is examined), unless specifically instructed. Sample collection was performed in a non-destructive and non-invasive manner by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas contain asbestos materials may also be made and stated within the register.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with relevant Statutory Regulations, Codes of Practice and Tetra Tech's Work Instructions. Laboratories undertaking analysis are appropriately NATA certified for the analysis conducted. LCD thresholds are adopted from lead in soil thresholds found in the National Environment Protection Assessment of Site Contamination (ASC) Measure (1999) as amended in 2013 (NEPM).

The presence of asbestos in bulk samples is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques. Where asbestos was found to exist, a risk assessment was conducted on each item and a priority rating applied. This was conducted in accordance with the protocols described in **Appendix D: Risk Assessment**.

The asbestos and hazmat register is made up of relevant information gathered on site plus Tetra Tech's assessment of risk and assignment of action ratings. Reference to photographs, where available, is made in the register along with sample identification and analysis results, where applicable. Sample analysis results from previous assessments may be utilised and referenced in this register.



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Statement of Limitations

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

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

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client's instruction, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected.

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

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

The assessment brief is to identify every reasonably accessible hazmat. Reasonably accessible does not extend to searching for concealed hazmat beneath concrete encased structural beams or beneath concrete floors, behind another hazmat, or any other locations which, to access, would cause structural damage that could potentially destabilise the structure or the building. Given the way in which hazmat was used in the construction of buildings, some may only be detected during the course of subsequent demolition.

Any areas within the remit of the assessment but not described within the body of the report or in the hazmat register should be regarded by the client as un-assessed, and suspected as ACM potentially containing amphibole asbestos. A competent person should assess such areas before any work affecting them is carried out.

It must be assumed that materials visually assessed as presumed asbestos contain amphibole asbestos, unless sampled and analysed to prove otherwise. All areas where access was not possible must also be presumed to contain asbestos until proven otherwise.

Asbestos Containing Materials

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

Representative sampling is defined as one like sample per consistent material type, situation or item. In these instances, only one test sample will be collected for analytical confirmation and the results expressed as consistent and typical of the building. It is advisable to presume that materials similar to those positively identified as asbestos also contain asbestos until proved otherwise. It should not be presumed that materials similar in appearance to those tested and found not to contain asbestos also do not contain asbestos.

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

Notably, with some asbestos containing bulk material it can be very difficult, or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres

present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

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

Internal building materials should be assumed to contain asbestos until otherwise assessed.

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

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

The following limitations and restrictions to specific materials, installations and locations are commonly found during assessments of this nature, even if safe access can be provided through consultation with the client this inspection and report may not include the following areas:

- Risers / Ceiling, Floor or Wall Cavities, and Voids may be completely blocked or bricked in. Occasionally may only be detected if shown on building construction plans or during demolition
- Columns / Structural Elements these will not be penetrated if doing so will damage the stability
 of the building
- Roofs / External Areas these will not be checked if safe access cannot be achieved
- Confined Spaces these will not be checked if safe access cannot be achieved
- Restricted Access areas subject to restricted access will not be checked unless special arrangements have been made through the client within the remit of the assessment
- Live Plant or Electrical Installations live electrical installations including fuse boxes, electrical control cabinets, distribution panels etc. are not routinely checked for safety reasons. Electrical equipment will only be examined if it is locked off and an isolation certificate has been issued. Under exceptional circumstances, when arranged by the client, examination of non-isolated equipment may take place under the supervision of an electrician
- Live Refrigerators / Cold Rooms / Mechanical Equipment / Heater Units / Kilns may contain asbestos internally, which is not visible or accessible until the unit is isolated and dismantled

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

This report does not comment on, or present information regarding regulatory waste disposal practices and the associated waste disposal legislative requirements for hazardous materials. Prior to the disposal of any hazardous materials from site, clarification from the EPA should be sought by you, the client or the controller of the site (PCBU).

As part of the site inspection, materials may be suspected to be non-hazardous based on age and/or appearance. If any of these materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and sampling of this material, with analytical confirmation should be undertaken in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Materials including (but not limited to) e.g. fire retardants, vermiculite, sprayed coatings and insulations cannot be feasibly sampled in their entirety due to the heterogeneous nature of such materials. Sample results provided are only representative of the material sampled, and in that particular sample location. If any such materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and targeted area sampling, with analytical

confirmation should be undertake in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Should any other material suspected to contain asbestos or hazmat be found at the site, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.



NSW Health Infrastructure c/o Turner & Townsend Asbestos and Hazardous Materials Pre-Demolition Assessment

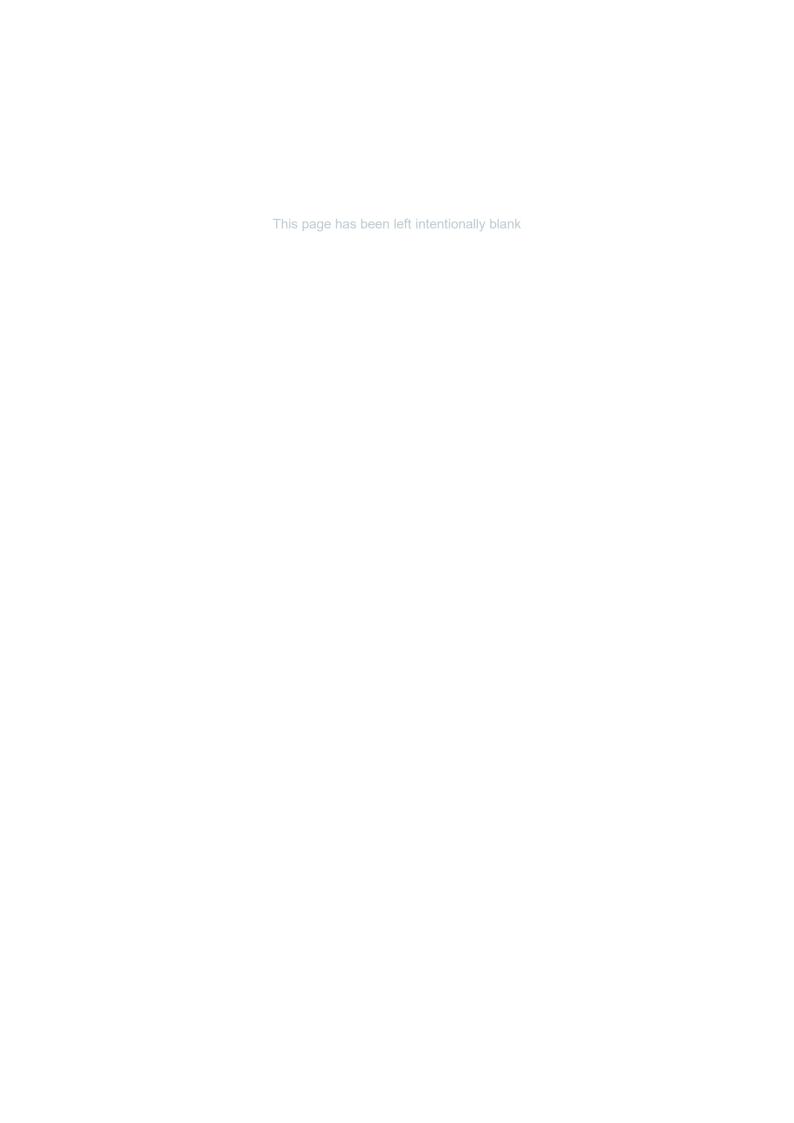
Main Building

Cessnock Hospital, 24 View Street

Cessnock NSW 2325

23/08/2024





Asbestos and Hazardous Materials Pre-Demolition Assessment

Prepared for.

NSW Health Infrastructure c/o Turner & Townsend

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Report Date: 23/08/2024

754-NTLEN347071-1 - Main Building Cessnock Hospital - HMDR - 10072024

Quality Information

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| R01 | Final | 23/08/2024 | Ben McCann | Ben McCann | Aaron Holmes |

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Appendix A: Asbestos and Hazardous Materials Register

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Executive Summary

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Main Building located at Cessnock Hospital, 24 View Street, Cessnock NSW 2325 (the site).

The purpose of the hazmat pre-demolition assessment was to identify and assess the health risk posed by hazmat, including asbestos containing materials (ACM) which may be encountered during future demolition/refurbishment works of the building. This is in order to meet the requirements of the relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes.

State/Territory legislation and industry guidance requires that information in this report is supplied on the understanding that the area surveyed is scheduled for demolition/refurbishment works, and that identified asbestos and other hazmat will be removed prior to, or as part of these works. Asbestos or other hazmat remaining in situ will need to be detailed in the asbestos and hazmat register and site-specific asbestos management plan designed to control the risks of exposure to hazardous materials.

The following hazardous building materials were identified at the time of the assessment:

| Property Asbest Contain Materia | | ining | Lead Based Paint | ed Containing | Synthetic Mineral Fibre | Poly- chlorinated Biphenyls | Ozone Depleting Substances |
|---------------------------------------|-----------------|---------|------------------------|---------------|-------------------------------|-----------------------------------|----------------------------------|
| | Non- Friable | Friable | | | | | |
| Main Building | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Full details of the material assessments can be located within **Appendix A: Asbestos and Hazardous Materials Register**.

Areas of No Access or Limited Access were present and are described in Section 2.2. It should be presumed that hazmat are present in these areas until further inspection can confirm or refute their presence.

A number of other recommendations were made in the body of this report which address the ongoing management of hazardous building materials at this site.

This executive summary must be read in conjunction with this entire report and the limitations contained therein.

1. Introduction

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Main Building located at Cessnock Hospital, 24 View Street, Cessnock NSW 2325 (the site). Ben McCann of Tetra Tech conducted the assessment on the 10/07/2024.

Note: The building was occupied at the time of the assessment. As such, destructive/intrusive sampling methods were not able to be used during the survey. A destructive hazardous materials survey must be carried out when the building has been vacated prior to any demolition or refurbishment works.

1.1. Site Information

The asbestos and hazardous materials pre-demolition assessment was undertaken of the Main Building located at Cessnock Hospital, 24 View Street, Cessnock NSW 2325 (the site).

| Table 1: Site Information | | | |
|---------------------------|---|--|--|
| Site: | Main Building, Cessnock Hospital, 24 View Street, Cessnock NSW 2325 | | |
| Age (Circa): | 1920 | | |
| Site Description: | Hospital building with various wings and sections | | |

1.2. Objective and Scope of Works

The objectives/scope of the hazmat assessment was to:

- Identify the presence of the following confirmed and or suspected hazmat building materials within accessible areas of nominated building(s):
 - Asbestos Containing Materials (ACM);
 - Lead Based Paint (LBP);
 - Lead Containing Dust (LCD);
 - Synthetic Mineral Fibres (SMF);
 - Polychlorinated Biphenyls in fluorescent light capacitors (PCBs); and
 - Ozone Depleting Substances (ODSs).
- Collect samples of suspected ACM and/or LBP and LCD, for analysis by a NATA accredited laboratory;
- Visually determine the presence of SMF, PCB-containing light fittings and ODSs;
- Recommend risk management strategies to mitigate risks associated with ACM and other hazmat for removal and ongoing occupancy;
- Prepare a detailed assessment report in alignment with the requirements of relevant State/Territory Regulations, Compliance Codes, Codes of Practice and Guidance Notes, and
- Provide a copy of the assessment report in electronic (PDF) format to NSW Health Infrastructure.

2. Findings

The results of the asbestos and hazardous materials pre-demolition assessment are provided in a register format which is designed to provide readily available information about the presence of hazmat prior to demolition or refurbishment.

2.1. Assessment Findings

The findings of this assessment are presented in tabulated format, including building materials that have been photographed are depicted in **Appendix A: Asbestos and Hazardous Materials Register**.

The following significant key findings are noted:

2.1.1. Asbestos Containing Materials

| Location | Material Description | Risk Rating |
|--|--|-------------|
| Internal / L2 / Lift Motor Room / Electrical Cabinet | Dust | High |
| Internal / GF / Central Wing, Day Surgery/Recovery / Plant Room, Penetration, Pipework | Lagging | Medium |
| Internal / GF / Central Wing, North Section / Ceiling Space Above Plant Room 1073, Pipework | Lagging | Medium |
| Internal / GF / Central Wing, North Section / Plant Room 1073, Wall Cavity, Penetration | Lagging | Medium |
| Internal / GF / Central Wing, North Section / Plant Room 1119, Ceiling Space, Debris | Fibre Cement Debris | Medium |
| Internal / GF / Southeast Wing / Ceiling Space, Throughout | Lagging | Medium |
| Internal / GF / Southeast Wing / Room 1202, Ceiling Space, Pipework | Lagging | Medium |
| Internal / L1 / Southeast Wing / Ceiling Space, Central, Pipework | Lagging | Medium |
| Internal / GF / Central Wing, Day Surgery/Recovery / Floor covering, Throughout | Vinyl Floor Tiles (white with grey specks) | Low |
| Internal / GF / Central Wing, North Section / Pharmacy 1075 and 1076, Ceiling Space | Lagging | Low |
| Internal / GF / Central Wing, North Section / Plant Room 1073, Boilers | Insulation | Low |
| Internal / GF / Central Wing, Ward A / Room 1096, Wall Cavities, Pipework | Lagging | Low |
| Internal / GF / Central Wing, Ward A / Room 1097, Within Wall Cavity | Lagging | Low |
| Internal / GF / Central Wing, Ward A / Room 1104, Wall Cavity Adjacent Toilet, Pipework | Lagging | Low |
| Internal / GF / Central Wing, Ward B / Floor covering, Various Throughout | Vinyl Floor Tiles (blue) | Low |
| Internal / GF / Central Wing, Ward B / Rooms 1174, 1176 & 1177, Floor Covering | Vinyl Floor Tiles (white with grey specks) | Low |

| Internal / GF / Southeast Wing / Reception Room 1237 and Drug Room 1238, Wall Cavities, Pipework | Lagging | Low |
|--|-----------------------|-----|
| Internal / GF / Southeast Wing / Room 1195, Wall Cavity, Pipework | Lagging | Low |
| Internal / L1 / Southeast Wing / Room 2006, Wall Cavity, Pipework | Lagging | Low |
| Internal / L1 / Southeast Wing / Room 2014, Wall Cavity, Pipework | Lagging | Low |
| External / GF / Central Wing / Central Courtyard, Wall Lining, Entry | Fibre Cement Sheeting | Low |
| External / GF / Central Wing / North Side, Infill Panels Above Windows | Fibre Cement Sheeting | Low |
| External / GF / Central Wing / Northern Boiler Area, Metal Encased Pipework | Lagging | Low |
| External / GF / Central Wing / South Side, Infill Panels Above Windows | Fibre Cement Sheeting | Low |
| External / GF / Central Wing / South Side, Metal Window Frames | Window Caulking | Low |
| External / GF / Central Wing / Southeast Side, Plant Room, Entrance Door | Fire Door Core | Low |
| External / GF / ED Wing / Eave, Throughout | Fibre Cement Sheeting | Low |
| External / GF / ED Wing / Roof, East and West Sides, Infill Panels Below Roof Gable | Fibre Cement Sheeting | Low |
| External / GF / West Wing / Eastern Entrance Awning, Adjacent Room 1171 | Fibre Cement Sheeting | Low |
| External / GF / West Wing / North Section, Eaves | Fibre Cement Sheeting | Low |
| External / GF / West Wing / South Side, Eaves | Fibre Cement Sheeting | Low |
| External / GF / West Wing / Western Covered Area Adjacent Kitchen, Awning and Infill Panels | Fibre Cement Sheeting | Low |
| External / L1 / Southeast Wing / Throughout, Eaves | Fibre Cement Sheeting | Low |
| External / Roof / Central Wing, North Section / Central Area, Infill Panels Below Roof Gable | Fibre Cement Sheeting | Low |
| External / Roof / Southeast Wing / Northwest Lower Roof Section, Waterproofing | Bituminous Membrane | Low |
| Internal / GF / All Areas / Ceiling Space, Various Throughout, Heater Banks to AC Ducting, Internal Lining | Millboard Insulation | Low |
| Internal / GF / Central Wing, Day Surgery/Recovery / Ceiling Space Above Reception Area, Pipework | Gasket Material | Low |

| Internal / GF / Central Wing, Day Surgery/Recovery / Ceiling Space Ladder Access Point Adjacent Reception, Floor Covering | Vinyl Floor Tiles | Low |
|---|---------------------------|-----|
| Internal / GF / Central Wing, North Section / Ceiling Space, South and East Sides, Walls | Fibre Cement Sheeting | Low |
| Internal / GF / Central Wing, North Section / Pharmacy 1075, Sink Pad | Bituminous Material | Low |
| Internal / GF / Central Wing, North Section / Plant Room 1073, Boiler, Large Gasket | Gasket Material | Low |
| Internal / GF / Central Wing, North Section / Plant Room 1073, Electrical Switch Board | Bituminous Backing Board | Low |
| Internal / GF / Central Wing, North Section / Plant Room 1073, Packing to Penetration Above Boilers | Fibre Cement Sheeting | Low |
| Internal / GF / Central Wing, North Section / Plant Room 1073, Pipework | Gasket Material | Low |
| Internal / GF / Central Wing, North Section / Plant Room 1119, Ceiling Space, Ceiling | Fibre Cement Sheeting | Low |
| Internal / GF / Central Wing, North Section / Staff Room 1058, Sink Pad | Bituminous Material | Low |
| Internal / GF / Central Wing, North Section / Sub-Floor Area, Central North, Adjacent Hatch | Fibre Cement Sheeting | Low |
| Internal / GF / Central Wing, Ward A / Room 1092, Floor Covering | Vinyl Floor Tiles (Brown) | Low |
| Internal / GF / Central Wing, Ward A / Rooms 1104, 1105, 1107, 1108 and 1110 | Vinyl Floor Tiles (Brown) | Low |
| Internal / GF / Central Wing, Ward B / Floor Covering, Room 1178, Throughout | Vinyl Floor Tiles (white) | Low |
| Internal / GF / Central Wing, Ward B / Various Throughout, Floor Covering (Mixed in With Blue Tiles) | Vinyl Floor Tiles (White) | Low |
| Internal / GF / Southeast Wing / Double Door to Room 1213 | Fire Door Core | Low |
| Internal / GF / Southeast Wing / Room 1191, Floor Covering | Vinyl Floor Tiles (Brown) | Low |
| Internal / GF / Southeast Wing / Rooms 1201, 1202, and 1203, Ceiling | Fibre Cement Sheeting | Low |
| Internal / GF / Southeast Wing / Southern Sub-Floor Area, Adjacent Entrance, Electrical Board | Bituminous Backing Board | Low |
| Internal / L1 / Southeast Wing / Ceiling Space, North, Stored On Ledge | Woven Material | Low |
| Internal / L1 / Southeast Wing / Ceiling Space, South, Old Water Tanks | Moulded Fibre Cement | Low |

| Internal / L1 / Southeast Wing / Ceiling Space, Waterproofing to Underside of Roof | Bituminous Material | Low |
|---|---------------------------|-----|
| Internal / L1 / Southeast Wing / Central Corridor and Rooms 2002, 2003, 2004, 2005, 2006, 2010, 2011, 2015, 2016, 2017, 2018, 2020, 2023, 2024, 2026 and 2029 | Vinyl Floor Tiles (Brown) | Low |
| Internal / L1 / Southeast Wing / Rooms 2033 and 2034, Below Carpet, Floor Covering | Vinyl Floor Tiles (Brown) | Low |
| Internal / L2 / Lift Motor Room / Adjacent Motor, Wire Insulation | Woven Material | Low |
| Internal / L2 / Lift Motor Room / Central Electrical Cabinet, Flash Arrestors | Fibre Cement Sheeting | Low |
| Internal / L2 / Lift Motor Room / Electrical Cabinet | Bituminous Backing Board | Low |
| Internal / L2 / Lift Motor Room / Electrical Cabinet, Wire Insulation | Woven Material | Low |
| Internal / L2 / Lift Motor Room / Lift Motor | Friction Pads | Low |

2.1.2. Lead Based Paint

| Location | Material Description | Risk Rating |
|--|----------------------|-------------|
| External / GF / Southeast Wing / Door & Frames, Various Throughout | Purple (Light) Paint | Low |
| External / GF / Central Wing / Central Courtyard, Windows & Frames, Throughout | White Paint | Low |
| External / GF and L1 / Southeast Wing / Throughout, Timber Window Frames | White Paint | Low |
| Internal / GF / Central Wing, North Section / Plant Doom 1060, Walls | Cream Paint | Low |
| Internal / GF / Central Wing, Ward A & B / Ceiling Space, Brickwork Lining | White Paint | Low |
| Internal / GF / Southeast Wing / All Areas, Walls | Light Purple Paint | Low |
| Internal / L1 / Southeast Wing / All Areas, Walls | Cream Paint | Low |
| Internal / L2 / Lift Motor Room / Lift Motor | Green Paint | Low |
| External / GF / Central Wing / Northern Courtyard, Ductwork, Throughout | Grey (Light) Paint | Very Low |
| External / GF / Central Wing / Northern Courtyard, Timber Window Frames | White Paint | Very Low |
| Internal / GF / All Areas / Various Throughout, Walls | Light Purple Paint | Very Low |

2.1.3. Lead Containing Dust

| Location | Material Description | Risk Rating |
|--|----------------------|-------------|
| Internal / GF / Central Wing, North Section / Plant Doom 1060, Throughout | Dust | High |
| Internal / GF and L1 / Southeast Wing / Ceiling Space, All surfaces, Throughout | Dust | Medium |
| Internal / L2 / Lift Motor Room / On Floor | Dust | Medium |
| Internal / GF / Central Wing, Day Surgery/Recovery / Plant Room, Throughout | Dust | Low |
| Internal / GF / Central Wing, North Section / Ceiling Space, Throughout | Dust | Low |
| Internal / GF / Central Wing, North Section / Plant Room 1073, Throughout | Dust | Low |
| Internal / GF / Central Wing, North Section / Plant Room 1119, Ceiling Space | Dust | Low |
| Internal / GF / Central Wing, Ward A & B / Ceiling Space, All surfaces, Throughout | Dust | Low |
| Internal / GF / ED Wing / Ceiling Space, On top of Ceiling, Throughout | Dust | Low |
| Internal / GF / Southeast Wing / Southern Sub-Floor Area, Throughout | Dust | Low |

2.1.4. Synthetic Mineral Fibres

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| Internal / GF / Central Wing, Day Surgery/Recovery / Plant Room, Pipework Debris | Insulation Material | Low |
| External / GF / Central Wing / Central Alleyway, Pipework debris | Insulation Material | Low |
| External / GF / Central Wing / Central Courtyard, Boilers and Associated Pipework | Insulation Material | Very Low |
| External / GF / Central Wing / Northern Boiler Area, Boilers | Insulation Material | Very Low |
| Internal / GF / All Areas / Ceiling Space, Ductwork | Insulation Material | Very Low |
| Internal / GF / All Areas / Ceiling Space, Pipework | Insulation Material | Very Low |
| Internal / GF / All Areas / Ceiling Space, Throughout | Sarking Insulation | Very Low |

| Internal / GF / All Areas / Staff Rooms and Kitchens, Water Heaters | Insulation Material | Very Low |
|---|--------------------------|----------|
| Internal / GF / Central Wing, North Section / Plant Room 1073, Pipework Above Boilers | Insulation Material | Very Low |
| Internal / GF / Southeast Wing / Central Corridor, Central | Compressed Ceiling Tiles | Very Low |
| Internal / GF / Southeast Wing / Room 1191, Water Heater | Insulation Material | Very Low |
| Internal / L1 / Southeast Wing / Ceiling Space, North, Old Metal Water Tank | Insulation Material | Very Low |
| External / GF / Central Wing / Central Courtyard, Pipework, Central | Insulation Material | Very Low |
| Internal / GF / Central Wing, Day Surgery/Recovery / Plant Room, Boilers | Insulation Material | Very Low |
| Internal / GF / Central Wing, Day Surgery/Recovery / Plant Room, Pipework | Insulation Material | Very Low |
| Internal / GF / Central Wing, Day Surgery/Recovery / Plant Room, Water Heater | Insulation Material | Very Low |
| Internal / GF / Central Wing, North Section / Ceiling Space, Ductwork, Throughout | Insulation Material | Very Low |
| Internal / GF / Central Wing, North Section / Ceiling Space, Flexible Ductwork, Throughout | Insulation Material | Very Low |
| Internal / GF / Central Wing, North Section / Ceiling Space, Sarking, Roof Lining | Insulation Material | Very Low |
| Internal / GF / Central Wing, North Section / Plant Room 1119, Ceiling Space, Ductwork | Insulation Material | Very Low |
| Internal / GF / Central Wing, North Section / Plant Room 1119, Ceiling Space, Insulation Batts | Insulation Material | Very Low |
| Internal / GF / Central Wing, North Section / Plant Room 1119, Ductwork | Insulation Material | Very Low |
| Internal / GF / Central Wing, North Section / Plant Room 1119, Pipework | Insulation Material | Very Low |
| Internal / GF / Central Wing, North Section / Sub-Floor Area, Pipework | Insulation Material | Very Low |
| Internal / GF / Central Wing, Ward A & B / Ceiling Space, Ductwork | Insulation Material | Very Low |
| Internal / GF / Central Wing, Ward A & B / Ceiling Space, Flexible ductwork | Insulation Material | Very Low |
| Internal / GF / Central Wing, Ward A & B / Ceiling Space, Pillow insulation, Penetrations adjacent ladder | Insulation Material | Very Low |

| Internal / GF / ED Wing / Ceiling Space, Ductwork, Various Throughout | Insulation Batts | Very Low |
|---|---------------------|----------|
| Internal / GF / ED Wing / Ceiling Space, Insulation Batts, Throughout | Insulation Material | Very Low |
| Internal / GF / ED Wing / Ceiling Space, Sarking, Roof Lining | Insulation Material | Very Low |

2.1.5. Polychlorinated Biphenyls

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| Internal / GF / Southeast Wing / Southern Sub-Floor Area, Light Fittings | Capacitor(s) | Very Low |

2.1.6. Ozone Depleting Substances

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| External / GF / Central Wing / Northern Boiler Area, Chillers | Unknown Refrigerant | Very Low |
| External / GF / Central Wing / South Side | Unknown Refrigerant | Very Low |
| Internal / GF / Central Wing, North Section / Pharmacy 1075, AC Unit | Unknown Refrigerant | Very Low |
| Internal / GF / Central Wing, Ward A / Staff Room 1118, AC Unit | Unknown Refrigerant | Very Low |

2.2. Access Restrictions

Where no access or limited access areas have been identified it should be presumed that hazmat are present in these areas until further investigation can confirm or refute their presence.

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

2.2.1. No Access Areas

The following areas were not accessible at the time of the assessment:

- Within live electrics, plant and ductwork throughout.
- Areas outside the scope of assessment.
- External, L1, Radio Transmitter Tower RFR Hazard.
- Internal GF Sub Floor Areas Limited access and labelled as confined space.

2.2.2. Limited Access Areas

Access to the following areas was limited at the time of the assessment:

- Internal, Ceiling Spaces Limited access in occupied areas. Some labelled as confined spaces;
- Wall and ceiling voids;
- Below floors;
- Behind ceramic wall tiles;
- Beneath floor coverings;
- Subfloor spaces;
- Risers;
- Occupied areas;
- · Formwork to concrete slabs; and
- Roof.

3. Recommendations

The following recommendations are provided with respect to hazmat identified during the assessment of the site. This assessment only covers the parts of the site that have been accessed and been assessed in accordance with the approved scope.

3.1. Asbestos Containing Materials

The preference will always be to eliminate the asbestos hazards from the site and if it is practicable for the occupier to do so then asbestos removal should always be considered. ACM on site, which were found to be in a bonded and stable condition, may be managed in situ and periodically inspected if removal is not practicable.

If managed in situ, all identified or presumed ACM should be appropriately labelled, where possible, and regularly inspected to assess their condition and potential changes to health risk.

Prior to any demolition, partial demolition, renovation or refurbishment, ACM likely to be disturbed by those works should be removed in accordance with relevant codes of practices, compliance codes and legislation.

3.1.1. Asbestos Control Measures

- If the ACM is friable, in a poor/unstable condition and accessible with risk to health from exposure, immediate access restrictions should be applied, and removal is required as soon as practicable using a licensed contractor.
- If the ACM is friable, accessible but in a stable condition, removal is preferred. However, if removal is not immediately practicable, short-term control measures (i.e. restrict access, sealing, enclosure etc) may be employed until removal can be facilitated.
- If the ACM is non-friable and, in a poor/unstable condition, disturbance should be minimised. Removal or encapsulation may be appropriate controls. ACM which are found in localised areas and identified as damaged, consisting of small qualities of non-friable cement debris may not require the highest removal priority. The removal priority may be lowered due to a low risk of disturbance. Further confirmation can be obtained via asbestos fibre air monitoring where the result is found to be < 0.01 fibre/mL.
- For the instances above and further assessment of the risk, airborne fibre monitoring is recommended and can assist with decisions on the most appropriate, and urgency of, control measures.

- Where ACM is in a good, stable condition, ongoing maintenance and periodic inspection would be appropriate control measures.
- Remaining ACM identified or presumed should be appropriately labelled where possible. Those items should be regularly inspected to ensure they are not deteriorating and resulting in a potential risk to health.
- An asbestos management plan (AMP) should be created and maintained for all ACM that remain
 at the site to assist the persons conducting a business or undertaking (PCBU) with the
 management of these materials. The AMP must ensure that suitable control measures are
 implemented to prevent site personnel and others from being exposed to airborne asbestos fibres.
- Schedule periodic reassessment of ACM remaining on-site to monitor their aging/deterioration so that the PCBU can be alerted if any ACM require encapsulation or removal.
- Prior to any demolition or refurbishment works, all asbestos and hazardous materials identified and likely to be disturbed by demolition or refurbishment works should be removed in accordance with the legislative requirements and relevant codes of practice or compliance codes.
- During future demolition works, if any materials that are not referenced in this report and are suspected of containing asbestos are encountered, then works must cease and an asbestos hygienist should be notified to determine whether the material contains asbestos.

The recommendations, conclusions or stability of asbestos materials contained in this report shall not abrogate a person of their responsibility to work in accordance with statutory requirements, codes of practice, guidelines, material safety data sheets, work instructions or reasonable work practices.

3.2. Lead Based Paint

- Any works that are likely to disturb lead based paint surface should be undertaken in accordance with the Australian Standard (AS4361.2:2017), Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings.
- Prior to any disturbance of lead based paint a comprehensive risk assessment is to be conducted.
- Any loose and peeling lead based paint should be stabilised (using hand-held scrapers, drop cloths and wet misting where appropriate) and the paint chips disposed of as hazardous waste.
- Any remediation works that may generate dust or fumes (i.e. sanding, burning) must be performed
 under controlled conditions by a suitably resourced and experienced hazardous material/waste
 abatement contractor (e.g. a Class A licensed asbestos removal contractor).

3.3. Lead Containing Dust

- Any work processes involving lead containing dust must be undertaken in a manner to ensure that
 no worker is exposed to lead at concentrations above the workplace exposure standard (WES) of
 0.05mg/m³ over an eight-hour day.
- Prior to any disturbance of lead containing dust a comprehensive risk assessment is to be conducted.
- Lead containing dust removal works should include the use of high efficiency particulate air (HEPA)
 filtered vacuum cleaners and wet wiping techniques by a licensed contractor under controlled leadcontaining dust conditions in conjunction with air monitoring and clearances by a competent
 hygienist.

3.4. Synthetic Mineral Fibres

 SMF materials that are likely to be disturbed during any proposed demolition/refurbishment works should be handled in accordance with The National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)].

3.5. Polychlorinated Biphenyls

- It may not be considered feasible to inspect every light fitting within a premise as information available in the public domain on the identification of PCB-containing capacitors is limited. However, all metal capacitors should be treated as containing PCB unless determined otherwise
- All capacitors containing or suspected as PCB or the fluorescent light fittings likely to be disturbed during future works should be removed prior to any future demolition, partial demolition, renovation or refurbishment in accordance with Department of Occupational Health, Safety and Welfare, Safe Handling of PCB in Fluorescent Light Capacitors – 1993 and with the Polychlorinated Biphenyls Management Plan, Revised Edition April 2003.

3.6. Ozone Depleting Substances

Removal of refrigerants should be undertaken prior to any future demolition, partial demolition, renovation or refurbishment, where ODS's are likely to be disturbed. A licensed contractor who will recycle and reuse the refrigerant should decommission CFC and HCFC based equipment that is being disposed of in accordance with Association of Fluorocarbon Consumers and Manufacturers, The Australian Refrigeration and Air Conditioning Code of Good Practice – 1992 and the Australian Commonwealth Government Ozone Protection Act – 1989.

3.7. Training

Information, instruction and training must be provided to workers, contractors and others who may come into contact with hazardous materials in a workplace, either directly or indirectly.

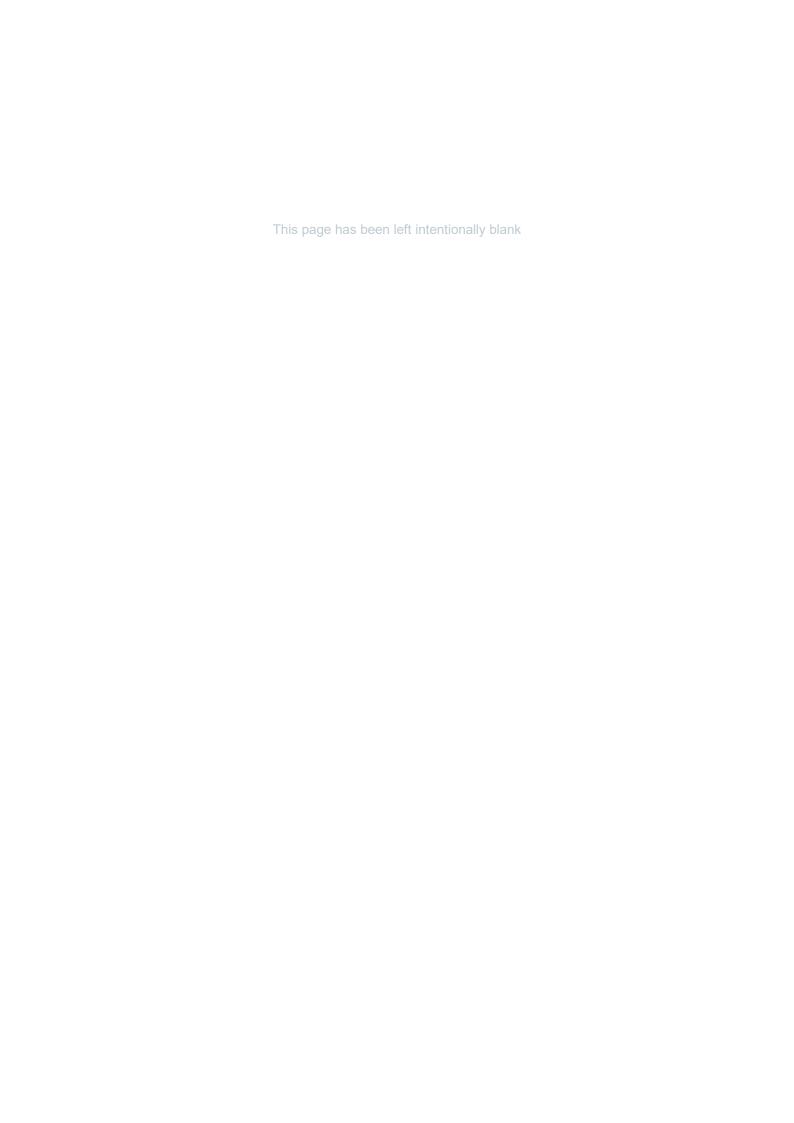
Depending on the circumstances this hazardous materials awareness training may include:

- The purpose of the training;
- The health risks of hazardous materials;
- The types, uses and likely occurrence of hazardous materials on site, in plant and/or equipment in the workplace;
- The trainee's roles and responsibilities for hazmat management;
- Where the asbestos and hazardous materials register is located and how it can be accessed;
- The timetable for removal of hazmat from the workplace;
- The processes and procedures to be followed to prevent exposure, including exposure from any accidental release of hazmat into the workplace;
- Where applicable, the correct use of maintenance and control measures, protective equipment and work methods to minimise the risks from hazmat, limit the exposure of workers and limit the spread of hazmat outside any work area;
- The National Exposure Standard (NES) and control levels for hazmat; and
- The purpose of any air monitoring or health surveillance that may occur.

Should any further suspect asbestos and/or hazmat become evident during future disturbance/ refurbishment works which have not been addressed in this report, Tetra Tech should be contacted immediately so that a WHS consultant can confirm the status of the suspect material/s.

Tetra Tech is able to assist with all aspects of Risk Management for removal of asbestos and other hazardous materials resulting from these findings

Appendix A: Asbestos and Hazardous Materials Register



| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|--------------------------|----------|---------------------------------|---|-------------|----------|-----------|----------------|--|---|---------|
| External | GF / Central Wing / Central Courtyard, Timber Window Frames | Window Caulking | Asbestos | A10673 | No Asbestos Detected | - | 10 Units | - | - | - | Including associated debris below windows | 1 |
| External | GF / Central Wing / Central Courtyard, Wall Lining, Entry | Fibre Cement Sheeting | Asbestos | A10672 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 20 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 2 |
| External | GF / Central Wing / North Side, Eaves | Fibre Cement Sheeting | Asbestos | A10661 | No Asbestos Detected | - | 30 m² | - | - | - | - | 3 |
| External | GF / Central Wing / North Side, Entrance Awning Adjacent Room 1048 | Fibre Cement Sheeting | Asbestos | A10659 | No Asbestos Detected | - | 12 m² | - | - | - | - | 4 |
| External | GF / Central Wing / North Side, Infill Panels Above Windows | Fibre Cement Sheeting | Asbestos | Previously Sampled MB03.1 | Chrysotile Asbestos Detected | Non-Friable | 2 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 5 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--------------------------|----------|--|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| External | GF / Central Wing / Northern Boiler Area, Ductwork Flange Joints | Mastic Sealant | Asbestos | A10657 | No Asbestos Detected | - | 20 m | - | - | - | - | 6 |
| External | GF / Central Wing / Northern Boiler Area, Infill Panel Above Oxygen Storage | Fibre Cement Sheeting | Asbestos | A10658 | No Asbestos Detected | - | 1 m² | - | - | - | - | 7 |
| External | GF / Central Wing / Northern Boiler Area, Metal Encased Pipework | Lagging | Asbestos | 754- NTLEN347071- 1Main Building339A2 | Suspected Asbestos | Friable | 20 m | Stable | Low | Prior to refurbishment or demolition | Confirm status. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 8 |
| External | GF / Central Wing / Northern Boiler Area, Residue to Pipework | Lagging | Asbestos | A10654 | No Asbestos Detected | - | 2 m | - | - | - | - | 9 |
| External | GF / Central Wing / Northern Generator Awning | Fibre Cement Sheeting | Asbestos | A10661.1 | No Asbestos Detected | - | 12 m² | - | - | - | - | 10 |
| External | GF / Central Wing / South Side, Infill Panels Above Windows | Fibre Cement Sheeting | Asbestos | Previously Sampled MB03 | Chrysotile Asbestos Detected | Non-Friable | 20 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant | 11 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--------------------------|----------|--|------------------------------------|-------------|----------|-----------|----------------|--|--|---------|
| | | | | | | | | | | | State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| External | GF / Central Wing / South Side, Metal Window Frames | Window Caulking | Asbestos | A10645 | Chrysotile Asbestos Detected | Non-Friable | 50 Units | Fair | Low | Prior to refurbishment or demolition | Remove windows whole without direct disturbance to caulking under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor. If scraping out of caulking is undertaken as the removal method (i.e. material is being crumbled, pulverized, rendered to a powder), this should be done under friable asbestos removal conditions by a Class A (friable) licensed asbestos removal contractor. | 12 |
| External | GF / Central Wing / Southeast Side, Plant Room, Entrance Door | Fire Door Core | Asbestos | 754- NTLEN347071- 1Main Building493A1 | Suspected Asbestos | Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Tagged Wormald Building Products 1998. Confirm status. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 13 |
| External | GF / ED Wing / Eaves, Throughout | Fibre Cement Sheeting | Asbestos | A10653 | Chrysotile Asbestos Detected | Non-Friable | 30 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 14 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------------|----------|----------------------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| External | GF / ED Wing / Emergency Entrance, Wall lining, Southwest | Compressed Cement Sheeting | Asbestos | A10651 | No Asbestos Detected | - | 30 m² | - | - | - | - | 15 |
| External | GF / ED Wing / Main Entrance | Construction Joint Mastic | Asbestos | A10650 | No Asbestos Detected | - | 3 m² | - | - | - | - | 16 |
| External | GF / ED Wing / Main Entrance, Awning | Fibre Cement Sheeting | Asbestos | Previously Sampled MB13 | No Asbestos Detected | - | 80 m² | - | - | - | - | 17 |
| External | GF / ED Wing / Northern Entrance, Wall Lining, Southwest | Compressed Cement Sheeting | Asbestos | A10651.1 | No Asbestos Detected | - | 10 m² | - | - | - | - | 18 |
| External | GF / ED Wing / Roof, East and West Sides, Infill Panels Below Roof Gable | Fibre Cement Sheeting | Asbestos | A10653.1 | Chrysotile Asbestos Detected | Non-Friable | 40 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 19 |
| External | GF / ED Wing / Roof, Gable Verge Lining, East & West | Fibre Cement Sheeting | Asbestos | A10652 | No Asbestos Detected | - | 60 m | - | - | - | - | 20 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|--------------------------|----------|----------------------------|---|-------------|----------|-----------|----------------|--|---|---------|
| External | GF / West Wing / Eastern Entrance Awning, Adjacent Room 1171 | Fibre Cement Sheeting | Asbestos | Previously Sampled MB02 | Chrysotile & Amosite Asbestos Detected | Non-Friable | 6 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 21 |
| External | GF / West Wing / North Section, Eaves | Fibre Cement Sheeting | Asbestos | A10662.1 | Chrysotile Asbestos Detected | Non-Friable | 40 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 22 |
| External | GF / West Wing / North Section, Infill Panels Above Windows | Fibre Cement Sheeting | Asbestos | Previously Sampled MB06 | No Asbestos Detected | - | 20 m² | - | - | - | - | 23 |
| External | GF / West Wing / South Side, Eaves | Fibre Cement Sheeting | Asbestos | A10662.2 | Chrysotile Asbestos Detected | Non-Friable | 6 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 24 |
| External | GF / West Wing / Western Covered Area Adjacent Kitchen, Awning and Infill Panels | Fibre Cement Sheeting | Asbestos | A10662 | Chrysotile Asbestos Detected | Non-Friable | 20 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant | 25 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--------------------------|----------|---------------|---|-------------|----------|-----------|----------------|--------------------------------------|---|---------|
| | | | | | | | | | | | State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| External | GF / West Wing / Western Entrance Awning | Fibre Cement Sheeting | Asbestos | A10663 | No Asbestos Detected | - | 20 m² | - | - | - | - | 26 |
| External | L1 / Southeast Wing / Throughout, Eaves | Fibre Cement Sheeting | Asbestos | A10665 | Chrysotile Asbestos Detected | Non-Friable | 60 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 27 |
| External | Roof / Central Wing, North Section / Central Area, Ductwork Flange Joints | Mastic Sealant | Asbestos | A10670 | No Asbestos Detected | - | 4 m | - | - | - | - | 28 |
| External | Roof / Central Wing, North Section / Central Area, Infill Panels Below Roof Gable | Fibre Cement Sheeting | Asbestos | A10672.1 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 12 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 29 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--------------------------|----------|--|------------------------------------|-------------|----------|-----------|----------------|--------------------------------------|--|---------|
| External | Roof / Central Wing, North Section / Infill Panel, Adjacent Ladder Access | Fibre Cement Sheeting | Asbestos | A10669 | No Asbestos Detected | - | 4 m² | - | - | - | - | 30 |
| External | Roof / Central Wing, South Section / Eaves | Fibre Cement Sheeting | Asbestos | A10666 | No Asbestos Detected | - | 60 m² | - | - | - | - | 31 |
| External | Roof / Central Wing, South Section / North Side, Infill Panel | Fibre Cement Sheeting | Asbestos | 754- NTLEN347071- 1Main Building339A5 | None Suspected | - | 1 m² | - | - | - | Suspected negative due to age and appearance. | 32 |
| External | Roof / ED Wing / Eaves, Throughout | Fibre Cement Sheeting | Asbestos | A10668 | No Asbestos Detected | - | 25 m² | - | - | - | - | 33 |
| External | Roof / ED Wing / West Side, Infill Panels | Fibre Cement Sheeting | Asbestos | 754- NTLEN347071- 1Main Building339A4 | None Suspected | - | 4 m² | - | - | - | Suspected negative due to age and appearance. | 34 |
| External | Roof / Southeast Wing / Northwest Lower Roof Section, Waterproofing | Bituminous Membrane | Asbestos | A10664 | Chrysotile Asbestos Detected | Non-Friable | 12 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant | 35 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|----------|---|------------------------------------|-------------|----------|-----------|----------------|--|--|---------|
| | | | | | | | | | | | State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| Internal | GF / All Areas / Ceiling Space, Various Throughout, Heater Banks to AC Ducting, Internal Lining | Millboard Insulation | Asbestos | 754- NTLEN347071- 1Main Building339A32 | Suspected Asbestos | Friable | 30 Units | Stable | Low | Prior to refurbishment or demolition | Live plant hazard. Confirm status. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 36 |
| Internal | GF / All Areas / Various Throughout, Doors | Fire Door Core | Asbestos | 754- NTLEN347071- 1Main Building339A12 | None Suspected | - | 20 Units | - | - | - | Pacific Doors and Protection Engineers. Manufactured post 2004. Suspected negative due to age and appearance. | 37 |
| Internal | GF / Central Wing, Day Surgery/Recovery / Ceiling Space Above Reception Area, Pipework | Gasket Material | Asbestos | A10689 | Chrysotile Asbestos Detected | Non-Friable | 4 Units | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 38 |
| Internal | GF / Central Wing, Day Surgery/Recovery / Ceiling Space Ladder Access Point Adjacent Reception, Floor Covering | Vinyl Floor Tiles | Asbestos | Previously Sampled MB11.2 | Chrysotile Asbestos Detected | Non-Friable | 3 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 39 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|--|----------|---------------------------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Central Wing, Day Surgery/Recovery / Floor covering, Throughout | Vinyl Floor Tiles (white with grey specks) | Asbestos | Previously Sampled MB11.1 | Chrysotile Asbestos Detected | Non-Friable | 200 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 40 |
| Internal | GF / Central Wing, Day Surgery/Recovery / Plant Room, Penetration, Pipework | Lagging | Asbestos | Previously Sampled MB14 | Amosite Asbestos Detected | Friable | 1 m | Fair | Medium | Prior to refurbishment or demolition | Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 41 |
| Internal | GF / Central Wing, Day Surgery/Recovery / Plant Room, Throughout | Dust | Asbestos | A10646 | No Asbestos Detected | - | 15 m² | - | - | - | - | 42 |
| Internal | GF / Central Wing, North Section / Ceiling Space Above Plant Room 1073, Pipework | Lagging | Asbestos | Previously Sampled MB14.5 | Amosite Asbestos Detected | Friable | 5 m | Fair | Medium | Prior to refurbishment or demolition | Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 43 |
| Internal | GF / Central Wing, North Section / Ceiling Space, South and East Sides, Walls | Fibre Cement Sheeting | Asbestos | 754- NTLEN347071- | Suspected Asbestos | Non-Friable | 150 m² | Stable | Low | Prior to refurbishment or demolition | Height restriction. Confirm status and remove under controlled non- friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos | 44 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|------------------------------|----------|---------------------------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| | | | | 1Main Building339A32 | | | | | | | removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| Internal | GF / Central Wing, North Section / Ceiling Space, Throughout | Dust | Asbestos | A10679 | No Asbestos Detected | - | 400 m² | - | - | - | - | 45 |
| Internal | GF / Central Wing, North Section / Ceiling Space, Throughout, Debris | Fibre Cement Sheeting | Asbestos | A10678 | No Asbestos Detected | - | 5 m² | - | - | - | - | 46 |
| Internal | GF / Central Wing, North Section / Corridor 1031, Floor Covering | Fibrous Backed Viny Sheet | Asbestos | A10671 | No Asbestos Detected | - | 30 m² | - | - | - | - | 47 |
| Internal | GF / Central Wing, North Section / Pharmacy 1075 and 1076, Ceiling Space | Lagging | Asbestos | Previously Sampled MB14.3 | Amosite Asbestos Detected | Friable | 20 m | Unknown | Low | Prior to refurbishment or demolition | Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 48 |
| Internal | GF / Central Wing, North Section / Pharmacy 1075, Sink Pad | Bituminous Material | Asbestos | A10683.1 | Chrysotile Asbestos Detected | Non-Friable | 0.5 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 49 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-----------------------------|----------|--|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Central Wing, North Section / Plant Room 1060, Infill Panels | Fibre Cement Sheeting | Asbestos | A10684 | No Asbestos Detected | - | 6 m² | - | - | - | - | 50 |
| Internal | GF / Central Wing, North Section / Plant Room 1073, Boiler, Large Gasket | | Asbestos | A10676 | Chrysotile Asbestos Detected | Non-Friable | 2 Units | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 51 |
| Internal | GF / Central Wing, North Section / Plant Room 1073, Boilers | Insulation | Asbestos | 754- NTLEN347071- 1Main Building339A8 | Suspected Asbestos | Friable | 2 Units | Stable | Low | Prior to refurbishment or demolition | Confirm status. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 52 |
| Internal | GF / Central Wing, North Section / Plant Room 1073, Electrical Switch Board | Bituminous Backing Board | Asbestos | 754- NTLEN347071- 1Main Building339A7 | Suspected Asbestos | Non-Friable | 1 Unit | Fair | Low | Prior to refurbishment or demolition | Confirm status. Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 53 |
| Internal | GF / Central Wing, North Section / Plant Room 1073, Infill Panels | Fibre Cement Sheeting | Asbestos | A10675 | No Asbestos Detected | - | 3 m² | - | - | - | - | 54 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|--------------------------|----------|---------------------------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Central Wing, North Section / Plant Room 1073, Packing to Penetration Above Boilers | Fibre Cement Sheeting | Asbestos | A10677 | Chrysotile Asbestos Detected | Non-Friable | 1 m² | Poor | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 55 |
| Internal | GF / Central Wing, North Section / Plant Room 1073, Pipework | Gasket Material | Asbestos | A10674 | Chrysotile Asbestos Detected | Non-Friable | 12 Units | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 56 |
| Internal | GF / Central Wing, North Section / Plant Room 1073, Wall Cavity, Penetration | Lagging | Asbestos | Previously Sampled MB14.4 | Amosite Asbestos Detected | Friable | 0.5 m² | Poor | Medium | Prior to refurbishment or demolition | Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 57 |
| Internal | GF / Central Wing, North Section / Plant Room 1119, Ceiling Space, Ceiling | Fibre Cement Sheeting | Asbestos | A10655 | Chrysotile Asbestos Detected | Non-Friable | 15 m² | Poor | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 58 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|------------------------------|----------|---------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Central Wing, North Section / Plant Room 1119, Ceiling Space, Debris | Fibre Cement Debris | Asbestos | A10655.1 | Chrysotile Asbestos Detected | Non-Friable | 15 m² | Poor | Medium | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 59 |
| Internal | GF / Central Wing, North Section / Plant Room 1119, Ceiling Space, on Top of Ceiling | Dust | Asbestos | A10656 | No Asbestos Detected | - | 120 m² | - | - | - | - | 60 |
| Internal | GF / Central Wing, North Section / Room 1033, Floor Covering | Fibrous Backed Viny Sheet | Asbestos | A10671.3 | No Asbestos Detected | - | 20 m² | - | - | - | - | 61 |
| Internal | GF / Central Wing, North Section / Staff Room 1058, Sink Pad | Bituminous Material | Asbestos | A10683 | Chrysotile Asbestos Detected | Non-Friable | 0.5 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 62 |
| Internal | GF / Central Wing, North Section / Storeroom 1062 | Fibrous Backed Viny Sheet | Asbestos | A10671.1 | No Asbestos Detected | - | 8 m² | Stable | - | - | | 63 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|------------------------------|----------|---------------------------------|------------------------------------|-------------|----------|-----------|----------------|--|--|---------|
| Internal | GF / Central Wing, North Section / Sub-Floor Area, Central North, Adjacent Hatch | Fibre Cement Sheeting | Asbestos | A10688 | Chrysotile Asbestos Detected | Non-Friable | 4 m² | Poor | Low | Prior to refurbishment or demolition | Full extent unknown. Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 64 |
| Internal | GF / Central Wing, Ward A / Room 1092, Floor Covering | Vinyl Floor Tiles (Brown) | Asbestos | A10685.1 | Chrysotile Asbestos Detected | Non-Friable | 12 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 65 |
| Internal | GF / Central Wing, Ward A / Room 1096, Wall Cavities, Pipework | Lagging | Asbestos | Previously Sampled MB14.7 | Amosite Asbestos Detected | Friable | 10 m | Unknown | Low | Prior to refurbishment or demolition | Not accessible. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 66 |
| Internal | GF / Central Wing, Ward A / Room 1097, Within Wall Cavity, Pipework | Lagging | Asbestos | Previously Sampled MB14.8 | Amosite Asbestos Detected | Friable | 5 m | Unknown | Low | Prior to refurbishment or demolition | Not accessible. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 67 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|------------------------------|----------|---|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Central Wing, Ward A / Room 1104, Wall Cavity Adjacent Toilet, Pipework | Lagging | Asbestos | Previously Sampled MB14.6 | Amosite Asbestos Detected | Friable | 8 m | Unknown | Low | Prior to refurbishment or demolition | Not accessible. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 68 |
| Internal | GF / Central Wing, Ward A / Rooms 1104, 1105, 1107, 1108 and 1110 | Vinyl Floor Tiles (Brown) | Asbestos | Previously Sampled MB07 | Chrysotile Asbestos Detected | Non-Friable | 220 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 69 |
| Internal | GF / Central Wing, Ward A / Staff Room 1118, Floor Covering | Fibrous Backed Viny Sheet | Asbestos | A10671.2 | No Asbestos Detected | - | 30 m² | - | - | - | - | 70 |
| Internal | GF / Central Wing, Ward A & B / Ceiling Space, All surfaces, Throughout | Dust | Asbestos | A10680 | No Asbestos Detected | - | 200 m² | - | - | - | - | 71 |
| Internal | GF / Central Wing, Ward A & B / Ceiling Space, Door | Fire Door Core | Asbestos | 754- NTLEN347071- 1Main Building339A11 | None Suspected | - | 1 Unit | - | - | - | Manufactured in 2008. Suspected negative due to age and appearance. | 72 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--|----------|--|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Central Wing, Ward B / Floor Covering, Room 1178, Throughout | Vinyl Floor Tiles (white) | Asbestos | A10681 | Chrysotile Asbestos Detected | Non-Friable | 12 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 73 |
| Internal | GF / Central Wing, Ward B / Floor covering, Various Throughout | Vinyl Floor Tiles (blue) | Asbestos | Previously Sampled MB10 | Chrysotile Asbestos Detected | Non-Friable | 300 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 74 |
| Internal | GF / Central Wing, Ward B / Floor Covering, Various Throughout | New Style Sheet Vinyl (black with white specs) | Asbestos | 754- NTLEN347071- 1Main Building493A2 | None Suspected | - | 100 m² | - | - | - | Suspected negative due to age and appearance. | 75 |
| Internal | GF / Central Wing, Ward B / Floor Covering, Various Throughout | New Style Sheet Vinyl (Cream) | Asbestos | 754- NTLEN347071- 1Main Building493A3 | None Suspected | - | 60 m² | - | - | - | Suspected negative due to age and appearance. | 76 |
| Internal | GF / Central Wing, Ward B / Room 1164, Distribution Boards | Electrical Components | Asbestos | 754- NTLEN347071- | None Suspected | - | 2 Units | - | - | - | Suspected negative due to age and appearance. | 77 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|--|----------|---|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| | | | | 1Main Building339A13 | | | | | | | | |
| Internal | GF / Central Wing, Ward B / Rooms 1174, 1176 & 1177, Floor Covering | Vinyl Floor Tiles (white with grey specks) | Asbestos | Previously Sampled MB11 | Chrysotile Asbestos Detected | Non-Friable | 200 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 78 |
| Internal | GF / Central Wing, Ward B / Various Throughout, Floor Covering (Mixed in With Blue Tiles) | Vinyl Floor Tiles (White) | Asbestos | A10682 | Chrysotile Asbestos Detected | Non-Friable | 20 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 79 |
| Internal | GF / Southeast Wing / Ceiling Space, Throughout | Lagging | Asbestos | Previously Sampled MB14.1 | Amosite Asbestos Detected | Friable | 100 m | Fair | Medium | Prior to refurbishment or demolition | Restrict access and remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 80 |
| Internal | GF / Southeast Wing / Double Door to Room 1213 | Fire Door Core | Asbestos | 754- NTLEN347071- 1Main Building339A31 | Suspected Asbestos | Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Manufactured in 1997. Confirm status. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal | 81 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|------------------------------|----------|----------------------------------|------------------------------------|-------------|----------|-----------|----------------|--------------------------------------|---|---------|
| | | | | | | | | | | | contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| Internal | GF / Southeast Wing / Reception Room 1237 and Drug Room 1238, Wall Cavities, Pipework | Lagging | Asbestos | Previously Sampled MB14.12 | Amosite Asbestos Detected | Friable | 12 m | Unknown | Low | Prior to refurbishment or demolition | Not accessible. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 82 |
| Internal | GF / Southeast Wing / Room 1191, Floor Covering | Vinyl Floor Tiles (Brown) | Asbestos | A10685 | Chrysotile Asbestos Detected | Non-Friable | 18 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 83 |
| Internal | GF / Southeast Wing / Room 1195, Wall Cavity, Pipework | Lagging | Asbestos | Previously Sampled MB14.11 | Amosite Asbestos Detected | Friable | 5 m | Unknown | Low | Prior to refurbishment or demolition | Not accessible. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 84 |
| Internal | GF / Southeast Wing / Room 1202, Ceiling Space, Pipework | Lagging | Asbestos | Previously Sampled MB14.13 | Amosite Asbestos Detected | Friable | 10 m | Fair | Medium | Prior to refurbishment or demolition | Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State | 85 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-----------------------------|----------|--|------------------------------------|-------------|----------|-----------|----------------|--|--|---------|
| | | | | | | | | | | | Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| Internal | GF / Southeast Wing / Rooms 1201, 1202, and 1203, Ceiling | Fibre Cement Sheeting | Asbestos | Previously Sampled MB09 | Chrysotile Asbestos Detected | Non-Friable | 25 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 86 |
| Internal | GF / Southeast Wing / Southern Sub-Floor Area, Adjacent Entrance, Electrical Board | Bituminous Backing Board | Asbestos | 754- NTLEN347071- 1Main Building339A6 | Suspected Asbestos | Non-Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Painted. Confirm status. Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 87 |
| Internal | GF / Southeast Wing / Southern Sub-Floor Area, Central, Debris | Woven Material | Asbestos | A10648 | No Asbestos Detected | - | 2 m² | - | - | - | - | 88 |
| Internal | GF / Southeast Wing / Southern Sub-Floor Area, Central, Pipework | Gasket Material | Asbestos | A10647 | No Asbestos Detected | - | 1 Unit | - | - | - | - | 89 |
| Internal | GF / Southeast Wing / Southern Sub-Floor Area, Throughout | Dust | Asbestos | A10649 | No Asbestos Detected | - | 400 m² | - | - | - | - | 90 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|----------|---|---------------------------------|-------------|----------|-----------|----------------|--|--|---------|
| Internal | L1 / Southeast Wing / Ceiling Space, All surfaces, Throughout | Dust | Asbestos | A10687 | No Asbestos Detected | - | 800 m² | - | - | - | - | 91 |
| Internal | L1 / Southeast Wing / Ceiling Space, Central, Pipework | Lagging | Asbestos | Previously Sampled MB14.2 | Amosite Asbestos Detected | Friable | 50 m | Fair | Medium | Prior to refurbishment or demolition | Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 92 |
| Internal | L1 / Southeast Wing / Ceiling Space, North, Stored on Ledge | Woven Material | Asbestos | 754- NTLEN347071- 1Main Building339A28 | Suspected Asbestos | Friable | 2 m² | Fair | Low | Prior to refurbishment or demolition | Unknown material sighted from access hatch. Confirm status. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 93 |
| Internal | L1 / Southeast Wing / Ceiling Space, South, Old Water Tanks | Moulded Fibre Cement | Asbestos | 754- NTLEN347071- 1Main Building339A29 | Suspected Asbestos | Non-Friable | 2 Units | Stable | Low | Prior to refurbishment or demolition | Confirm status. Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 94 |
| Internal | L1 / Southeast Wing / Ceiling Space, Waterproofing to Underside of Roof | Bituminous Material | Asbestos | 754- NTLEN347071- | Suspected Asbestos | Non-Friable | 800 m² | Fair | Low | Prior to refurbishment or demolition | Height restriction. Confirm status. Remove under controlled non- friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos | 95 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|------------------------------|----------|----------------------------------|------------------------------------|-------------|----------|-----------|----------------|--------------------------------------|---|---------|
| | | | | 1Main Building339A30 | | | | | | | removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| Internal | L1 / Southeast Wing / Central Corridor and Rooms 2002, 2003, 2004, 2005, 2006, 2010, 2011, 2015, 2016, 2017, 2018, 2020, 2023, 2024, 2026 and 2029 | Vinyl Floor Tiles (Brown) | Asbestos | Previously Sampled MB07.1 | Chrysotile Asbestos Detected | Non-Friable | 400 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 96 |
| Internal | L1 / Southeast Wing / Room 2006, Wall Cavity, Pipework | Lagging | Asbestos | Previously Sampled MB14.10 | Amosite Asbestos Detected | Friable | 5 m | Unknown | Low | Prior to refurbishment or demolition | Not accessible. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 97 |
| Internal | L1 / Southeast Wing / Room 2014, Wall Cavity, Pipework | Lagging | Asbestos | Previously Sampled MB14.9 | Amosite Asbestos Detected | Friable | 5 m | Unknown | Low | Prior to refurbishment or demolition | Not accessible. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 98 |
| Internal | L1 / Southeast Wing / Rooms 2033 and 2034, Below Carpet, Floor Covering | Vinyl Floor Tiles (Brown) | Asbestos | Previously Sampled MB07.2 | Chrysotile Asbestos Detected | Non-Friable | 90 m² | Unknown | Low | Prior to refurbishment or demolition | Not accessible. Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in | 99 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-----------------------------|----------|---|------------------------------------|-------------|----------|-----------|----------------|--|--|---------|
| | | | | | | | | | | | accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| Internal | L2 / Lift Motor Room / Adjacent Motor, Wire Insulation | Woven Material | Asbestos | 754- NTLEN347071- 1Main Building339A26 | Suspected Asbestos | Friable | 2 m | Fair | Low | Prior to refurbishment or demolition | Live electrical hazard. Confirm status. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 100 |
| Internal | L2 / Lift Motor Room / Central Electrical Cabinet, Flash Arrestors | Fibre Cement Sheeting | Asbestos | 754- NTLEN347071- 1Main Building339A27 | Suspected Asbestos | Non-Friable | 1 m² | Stable | Low | Prior to refurbishment or demolition | Live electrical hazard. Confirm status. Remove under controlled non- friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 101 |
| Internal | L2 / Lift Motor Room / Electrical Cabinet | Bituminous Backing Board | Asbestos | 754- NTLEN347071- 1Main Building339A25 | Suspected Asbestos | Non-Friable | 1 m² | Poor | Low | Prior to refurbishment or demolition | Live electrical hazard. Confirm status. Remove under controlled non- friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 102 |
| Internal | L2 / Lift Motor Room / Electrical Cabinet | Dust | Asbestos | A10686 | Chrysotile Asbestos Detected | Friable | 0.5 m² | Poor | High | Prior to refurbishment or demolition | Restrict access and remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant | 103 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|------------|---|---------------------------------|-------------|----------|-----------|----------------|--|---|----------|
| | | | | | | | | | | | State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | |
| Internal | L2 / Lift Motor Room / Electrical Cabinet, Wire Insulation | Woven Material | Asbestos | 754- NTLEN347071- 1Main Building339A23 | Suspected Asbestos | Friable | 1 m | Fair | Low | Prior to refurbishment or demolition | Live electrical hazard. Confirm status. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 104 |
| Internal | L2 / Lift Motor Room / Lift Motor | Friction Pads | Asbestos | 754- NTLEN347071- 1Main Building339A24 | Suspected Asbestos | Non-Friable | 2 Units | Stable | Low | Prior to refurbishment or demolition | Live plant hazard. Confirm status. Remove under controlled non- friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 105 |
| External | GF / Central Wing / Central Courtyard, Windows & Frames, Throughout | White Paint | Lead Paint | L18543.1 | Lead Detected (1.8% w/w) | - | 20 m | Fair | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 106 t |
| External | GF / Central Wing / Northern Courtyard, Ductwork, Throughout | Grey (Light) Paint | Lead Paint | L18544 | Lead Detected (0.22% w/w) | - | 10 m² | Stable | Very Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct | 107 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|------------|---------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|----------|
| | | | | | | | | | | | a risk assessment to determine the level of remediation controls required. | |
| External | GF / Central Wing / Northern Courtyard, Timber Window Frames | White Paint | Lead Paint | L18543 | Lead Detected (1.8% w/w) | - | 10 m | Stable | Very Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 108 t |
| External | GF / Southeast Wing / Door & Frames, Various Throughout | Pink (Light) Paint | Lead Paint | L18552 | Lead Detected (0.02% w/w) | - | 25 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 109 |
| External | GF / Southeast Wing / Door & Frames, Various Throughout | Purple (Light) Paint | Lead Paint | L18548 | Lead Detected (0.15% w/w) | - | 40 m² | Fair | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 110 t |
| External | GF and L1 / Southeast Wing / Throughout, Timber Window Frames | White Paint | Lead Paint | L18550 | Lead Detected (4.7% w/w) | - | 50 Units | Fair | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct | |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|------------|---------------|----------------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| | | | | | | | | | | | a risk assessment to determine the level of remediation controls required. | |
| Internal | GF / All Areas / Various Throughout, Walls | Light Purple Paint | Lead Paint | L18530.1 | Lead Detected (1.2 % w/w) | - | 2000 m² | Stable | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | . 112 |
| Internal | GF / Central Wing, Day Surgery/Recovery / Plant Room, Walls | White Paint | Lead Paint | L18551 | Lead Detected (0.099% w/w) | - | 20 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 113 |
| Internal | GF / Central Wing, North Section / Plant Room 1073, Floor | Cream Paint | Lead Paint | L18540 | Lead Detected (0.03% w/w) | - | 30 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 114 |
| Internal | GF / Central Wing, North Section / Plant Room 1119, Ceiling Space, Walls | White Paint | Lead Paint | L18546 | Lead Detected (0.02% w/w) | - | 20 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 115 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|------------|---------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|----------|
| Internal | GF / Central Wing, North Section / Plant Doom 1060 / Walls | Cream Paint | Lead Paint | L18536 | Lead Detected (8.7% w/w) | - | 30 m² | Poor | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 116 t |
| Internal | GF / Central Wing, Ward A & B / Ceiling Space, Brickwork Lining | White Paint | Lead Paint | L18538 | Lead Detected (4.1% w/w) | - | 50 m² | Poor | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 117 |
| Internal | GF / Southeast Wing / All Areas, Walls | Light Purple Paint | Lead Paint | L18530 | Lead Detected (1.2 % w/w) | - | 1000 m² | Fair | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 118 t |
| Internal | L1 / Southeast Wing / All Areas, Walls | Cream Paint | Lead Paint | L18534 | Lead Detected (0.30% w/w) | - | 1000 m² | Fair | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct | |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|------------|---------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|----------|
| | | | | | | | | | | | a risk assessment to determine the level of remediation controls required. | |
| Internal | L2 / Lift Motor Room / Lift Motor | Green Paint | Lead Paint | L18532 | Lead Detected (2.1 % w/w) | - | 5 m² | Fair | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 120 t |
| Internal | GF / Central Wing, Day Surgery/Recovery / Plant Room, Throughout | Dust | Lead Dust | L18549 | Lead Detected (970mg/kg) | - | 15 m² | Poor | Low | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 121 |
| Internal | GF / Central Wing, North Section / Ceiling Space, Throughout | Dust | Lead Dust | L18541 | Lead Detected (49mg/kg) | - | 400 m² | Poor | Low | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 122 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|-----------|---------------|---------------------------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| Internal | GF / Central Wing, North Section / Plant Doom 1060, Throughout | Dust | Lead Dust | L18535 | Lead Detected (52,000 mg/kg) | - | 20 m² | Poor | High | - | >1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Implement intermediate control measures. Conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. Restrict access in the interim. | 123 |
| Internal | GF / Central Wing, North Section / Plant Room 1073, Throughout | Dust | Lead Dust | L18539 | Lead Detected (550 mg/kg) | - | 30 m² | Poor | Low | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 124 |
| Internal | GF / Central Wing, North Section / Plant Room 1119, Ceiling Space | Dust | Lead Dust | L18545 | Lead Detected (340mg/kg) | - | 120 m² | Poor | Low | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 125 |
| Internal | GF / Central Wing, Ward A & B / Ceiling Space, All surfaces, Throughout | Dust | Lead Dust | L18537 | Lead Detected (900mg/kg) | - | 200 m² | Poor | Low | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any | 126 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|-----------|---------------|-----------------------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| | | | | | | | | | | | activities including refurbishment or demolition that may disturb the dust. | |
| Internal | GF / ED Wing / Ceiling Space, On top of Ceiling, Throughout | Dust | Lead Dust | L18542 | Lead Detected (52 mg/kg) | - | 160 m² | Poor | Low | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 127 |
| Internal | GF / Southeast Wing / Southern Sub-Floor Area, Throughout | Dust | Lead Dust | L18547 | Lead Detected (740mg/kg) | - | 400 m² | Poor | Low | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 128 |
| Internal | GF and L1 / Southeast Wing / Ceiling Space, All surfaces, Throughout | Dust | Lead Dust | L18424 | Lead Detected (1,800 mg/kg) | - | 1,500 m² | Poor | Medium | - | >1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Implement intermediate control measures. Conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 129 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|-----------|---|-----------------------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| Internal | L2 / Lift Motor Room / On Floor | Dust | Lead Dust | L18533 | Lead Detected (3,300 mg/kg) | - | 30 m² | Poor | Medium | - | >1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Implement intermediate control measures. Conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 130 |
| External | GF / Central Wing / Central Alleyway, Pipework debris | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S13 | Suspected SMF | - | 10 m² | - | Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. High damage or delamination of materials. Visible debris. | 131 |
| External | GF / Central Wing / Central Courtyard, Boilers and Associated Pipework | Insulation Material | SMF | 754- NTLEN347071- 1Main Building339S2 | Suspected SMF | - | 2 Units | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 132 |
| External | GF / Central Wing / Central Courtyard, Pipework, Central | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S14 | Suspected SMF | - | 10 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 133 |
| External | GF / Central Wing / Northern Boiler Area, Boilers | Insulation Material | SMF | 754- NTLEN347071- | Suspected SMF | - | 2 Units | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 134 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|--------|---|------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| | | | | 1Main Building339S1 | | | | | | | | |
| Internal | GF / All Areas / Ceiling Space, Ductwork | Insulation Material | SMF | 754- NTLEN347071- 1Main Building339S12 | Suspected SMF | - | 1000 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 135 |
| Internal | GF / All Areas / Ceiling Space, Pipework | Insulation Material | SMF | 754- NTLEN347071- 1Main Building339S13 | Suspected SMF | - | 1000 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 136 |
| Internal | GF / All Areas / Ceiling Space, Throughout | Sarking Insulation | SMF | 754- NTLEN347071- 1Main Building339S14 | Suspected SMF | - | 4000 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 137 |
| Internal | GF / All Areas / Staff Rooms and Kitchens, Water Heaters | Insulation Material | SMF | 754- NTLEN347071- 1Main Building339S9 | Suspected SMF | - | 20 Units | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 138 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|--------|---|------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / Central Wing, Day Surgery/Recovery / Plant Room, Boilers | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S1 | Suspected SMF | - | 2 Units | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 139 |
| Internal | GF / Central Wing, Day Surgery/Recovery / Plant Room, Pipework | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S3 | Suspected SMF | - | 20 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 140 |
| Internal | GF / Central Wing, Day Surgery/Recovery / Plant Room, Pipework Debris | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S4 | Suspected SMF | - | 10 m² | - | Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. High damage or delamination of materials. Visible debris. | 141 |
| Internal | GF / Central Wing, Day Surgery/Recovery / Plant Room, Water Heater | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S2 | Suspected SMF | - | 1 Unit | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 142 |
| Internal | GF / Central Wing, North Section / Ceiling Space, Ductwork, Throughout | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S22 | Suspected SMF | - | 60 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 143 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|--------|---|------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / Central Wing, North Section / Ceiling Space, Flexible Ductwork, Throughout | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S20 | Suspected SMF | - | 100 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 144 |
| Internal | GF / Central Wing, North Section / Ceiling Space, Sarking, Roof Lining | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S21 | Suspected SMF | - | 600 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 145 |
| Internal | GF / Central Wing, North Section / Plant Room 1073, Pipework Above Boilers | Insulation Material | SMF | 754- NTLEN347071- 1Main Building339S3 | Suspected SMF | - | 20 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 146 |
| Internal | GF / Central Wing, North Section / Plant Room 1119, Ceiling Space, Ductwork | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S7 | Suspected SMF | - | 50 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 147 |
| Internal | GF / Central Wing, North Section / Plant Room 1119, Ceiling Space, Insulation Batts | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S8 | Suspected SMF | - | 50 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 148 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|--------|---|------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / Central Wing, North Section / Plant Room 1119, Ductwork | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S6 | Suspected SMF | - | 10 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 149 |
| Internal | GF / Central Wing, North Section / Plant Room 1119, Pipework | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S5 | Suspected SMF | - | 20 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 150 |
| Internal | GF / Central Wing, North Section / Sub-Floor Area, Pipework | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S9 | Suspected SMF | - | 60 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 151 |
| Internal | GF / Central Wing, Ward A & B / Ceiling Space, Ductwork | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S16 | Suspected SMF | - | 40 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 5 152 |
| Internal | GF / Central Wing, Ward A & B / Ceiling Space, Flexible ductwork | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S15 | Suspected SMF | - | 60 m | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 153 |

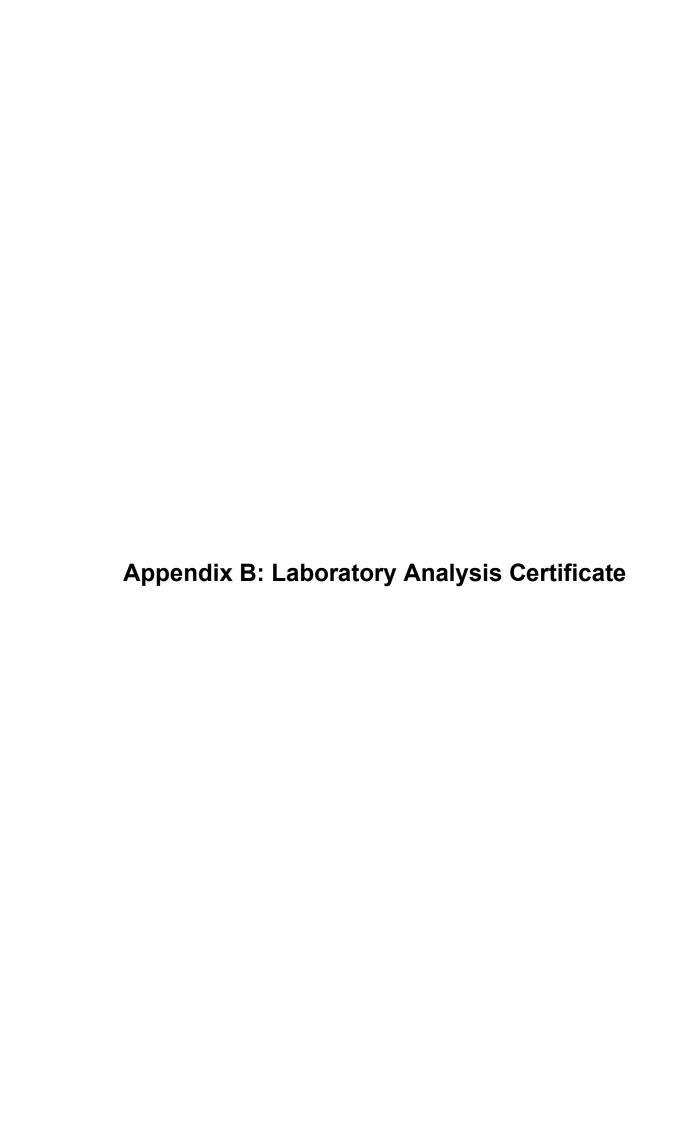
| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-----------------------------|--------|---|------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / Central Wing, Ward A & B / Ceiling Space, Pillow insulation, Penetrations adjacent ladder | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S19 | Suspected SMF | - | 2 Units | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 154 |
| Internal | GF / ED Wing / Ceiling Space, Ductwork, Various Throughout | Insulation Batts | SMF | 754- NTLEN347071- 1Main Building493S11 | Suspected SMF | - | 40 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 155 |
| Internal | GF / ED Wing / Ceiling Space, Insulation Batts, Throughout | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S10 | Suspected SMF | - | 120 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 156 |
| Internal | GF / ED Wing / Ceiling Space, Sarking, Roof Lining | Insulation Material | SMF | 754- NTLEN347071- 1Main Building493S12 | Suspected SMF | - | 150 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. Low Damage. | 157 |
| Internal | GF / Southeast Wing / Central Corridor, Central | Compressed Ceiling Tiles | SMF | 754- NTLEN347071- 1Main Building339S8 | Suspected SMF | - | 40 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 158 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|---|--------|---|------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / Southeast Wing / Room 1191, Water Heater | Insulation Material | SMF | 754- NTLEN347071- 1Main Building339S7 | Suspected SMF | - | 1 Unit | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 159 |
| Internal | L1 / Southeast Wing / Ceiling Space, North, Old Metal Water Tank | Insulation Material | SMF | 754- NTLEN347071- 1Main Building339S10 | Suspected SMF | - | 1 Unit | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 160 |
| Internal | GF / Southeast Wing / Southern Sub-Floor Area, Light Fittings | Capacitor(s) | PCB | 754- NTLEN347071- 1Main Building339P1 | Suspected PCB | - | 10 Units | - | Very Low | - | PCB-containing capacitors are suspected due to age & appearance of electrical fittings. Remove and dispose of in accordance with the Polychlorinated Biphenyls Management Plan, Revised Edition April 2003. | 161 |
| External | GF / Central Wing / Central Courtyard, AC Unit | R410A Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- 1Main Building339O11 | Non ODS Refrigerant | - | 1 Unit | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 162 |
| External | GF / Central Wing / North Side, Northern Courtyard and South Side, AC Units | R410A and R32 Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- 1Main Building339O9 | Non ODS Refrigerant | - | 18 Units | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 163 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------------------|--------|---|------------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| External | GF / Central Wing / Northern Boiler Area, Chillers | Unknown Refrigerant | ODS | 754- NTLEN347071- 1Main Building339O10 | Suspected ODS | - | 2 Units | - | Very Low | - | No data was visible at the time of the assessment. Confirm status of suspected ozone depleting substances identified in the assessment and ensure they are appropriately decanted and disposed of by a licensed contractor prior to refurbishment or demolition in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012. | 164 |
| External | GF / Central Wing / South Side | Unknown Refrigerant | ODS | 754- NTLEN347071- 1Main Building339O4 | Suspected ODS | - | 2 Units | - | Very Low | - | No data was visible at the time of the assessment. Confirm status of suspected ozone depleting substances identified in the assessment and ensure they are appropriately decanted and disposed of by a licensed contractor prior to refurbishment or demolition in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012. | 165 |
| External | GF / Central Wing / South Side, AC Unit | R410A Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- 1Main Building33903 | Non ODS Refrigerant | - | 1 Units | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 166 |
| External | GF / ED Wing / North Side, AC Unit | R410A Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- 1Main Building33907 | Non ODS Refrigerant | - | 3 Units | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 167 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|---|--------|---|------------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| External | GF / West Wing / South Side | R32 Refrigerant | ODS | 754- NTLEN347071- 1Main Building339O2 | Non ODS Refrigerant | - | 1 Unit | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 168 |
| External | GF / West Wing / South, East and West Sides | R410A Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- 1Main Building339O1 | Non ODS Refrigerant | - | 9 Units | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 169 |
| External | GF and L1 / Southeast Wing / East and West Sides, AC Units | R410A and R32 Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- 1Main Building339O6 | Non ODS Refrigerant | - | 12 Units | - | - | - | Hydrofluorocarbon (HFC) non ozone depleting substances. | 170 |
| Internal | GF / Central Wing, North Section / Pharmacy 1075, AC Unit | Unknown Refrigerant | ODS | 754- NTLEN347071- 1Main Building339O13 | Suspected ODS | - | 1 Unit | - | Very Low | - | No data was visible at the time of the assessment. Confirm status of suspected ozone depleting substances identified in the assessment and ensure they are appropriately decanted and disposed of by a licensed contractor prior to refurbishment or demolition in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012. | 171 |
| Internal | GF / Central Wing, North Section / Plant Room 1119, Chiller | R404A Hydrofluorocarbon (HFC) | ODS | 754- NTLEN347071- | Non ODS Refrigerant | - | 1 Unit | - | - | - | Suspected negative due to age and appearance. | 172 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|-----------|---|------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| | | | | 1Main Building493O1 | | | | | | | | |
| Internal | GF / Central Wing, Ward A / Staff Room 1118, AC Unit | Unknown Refrigerant | ODS | 754- NTLEN347071- 1Main Building339O12 | Suspected ODS | - | 1 Unit | - | Very Low | - | No data was visible at the time of the assessment. Confirm status of suspected ozone depleting substances identified in the assessment and ensure they are appropriately decanted and disposed of by a licensed contractor prior to refurbishment or demolition in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012. | 173 |
| External | L1 / Radio Transmitter Tower | - | No Access | - | - | - | - | - | - | - | RFR hazard. No or limited access potential hazardous materials present within inaccessible areas | 174 |
| Internal | GF / Sub-Floor Areas | - | No Access | - | - | - | - | - | - | - | Limited access and labelled as confined space. No or limited access potential hazardous materials present within inaccessible areas | 175 |







Bulk Identification Report

Job No: 754-NTLEN347071-1 Bulk ID Report Cessnock Hospital Main Building 16072024

Client: NSW Health Infrastructure

Client Address: 1 Reserve Rd, St Leonards NSW 2065

Contact: Les Palma

E-mail: Les.Palma@turntown.com

Date Sampled: 11-07-2024 **Date Analysed:** 17-07-2024

Date Authorised: 29-07-2024
Sampled By: Ben McCann

Site: Cessnock Hospital, 24 View St, Cessnock, NSW

NATA

Accredited for compliance with ISO/IEC 17025 - Testing
Accreditation No:2220
Corporate Site No:16909

Please note: Where you have provided the samples for analysis, Tetra Tech Coffey Pty Ltd does not take any responsibility for the quality of such samples. This report relates exclusively to the samples analysed by Tetra Tech Coffey Pty Ltd and as such only the samples submitted or collected for analysis have been considered in presenting these results. The data and results contained in this report are not representative of the site, product or source material as a whole. Tetra Tech Coffey Pty Ltd does not make any warranty or representation in relation to the site, product or source material as a whole. If you suspect any material to contain asbestos, then you must immediately stop the works and activities at the site or in respect of the materials and engage Tetra Tech Coffey Pty Ltd or another suitably trained asbestos hygienist to sample, assess or re-assess (as the case may be) the material suspected to contain asbestos.

Asbestos in Bulk Samples and Non-homogenous Material

Test Method: Tetra Tech Coffey Pty Ltd

Tetra Tech Coffey Pty Ltd analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi-quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Tetra Tech Coffey Pty Ltd's NATA approved SOP WILAB1 sample retention periods are set at 1 month for all samples from the date of analysis.

Analysed At: Tetra Tech Coffey Pty Ltd Laboratory, Level 20, Tower B, Citadel Towers 799 Pacific Highway Chatswood NSW 2067

Total Samples: 43

Approved Identifier
Panika Wongchanda

Approved Signatory
Matthew Tang

| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|--|-----------------|--|
| A10645 | External, GF, Central Wing, South Side, Metal Window Frames, Window Caulking - Grey hardened mastic material | 26 x 7 x 5 mm | Chrysotile (white asbestos) detected |
| A10646 | Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Throughout, Dust - Brown non-homogenous fibrous dust & debris | 12.0 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A10647 | Internal, GF, Southeast Wing, Southern Sub-Floor Area, Central, Pipework, Gasket Material - Black rubbery gasket material | 18 x 5 x 4 mm | No asbestos fibres detected Organic fibres detected |
| A10648 | Internal, GF, Southeast Wing, Southern Sub-Floor Area, Central, Debris, Woven Material - White painted brown fibrous woven sheet material | 100 x 16 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A10649 | Internal, GF, Southeast Wing, Southern Sub-Floor Area, Throughout, Dust - Brown non-homogenous fibrous dust & debris | 6.5 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A10650 | External, GF, ED Wing, Main Entrance, Construction Joint Mastic - Brown rubbery mastic material & red cement material | 21 x 10 x 3 mm | No asbestos fibres detected |
| A10651 | External, GF, ED Wing, Emergency entrance, Wall lining, Southwest, Compressed Cement Sheeting - Blue painted beige fibre cement sheet material | 20 x 7 x 2 mm | No asbestos fibres detected Organic fibres detected |

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| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|---|-----------------|--|
| A10652 | External, GF, ED Wing, Roof, Gable verge lining, East & West, Fibre Cement Sheeting - Brown painted beige layered fibre cement sheet material | 42 x 18 x 4 mm | No asbestos fibres detected Organic fibres detected |
| A10653 | External, GF, ED Wing, Eave, Throughout, Fibre Cement Sheeting - Beige fibrous organic mica sheet material | 25 x 15 x 5 mm | No asbestos fibres detected Organic fibres detected |
| A10654 | External, GF, Central Wing, Northern Boiler Area, Residue to Pipework, Lagging - Brown vitreous fibrous insulation material | 25 x 10 x 1 mm | No asbestos fibres detected Synthetic mineral fibres detected |
| A10655 | Internal, GF, Central Wing, North Section, Plant Room 1119, Ceiling Space, Ceiling, Fibre Cement Sheeting - Grey compressed fibre cement sheet material | 60 x 53 x 5 mm | Chrysotile (white asbestos) detected |
| A10656 | Internal, GF, Central Wing, North Section, Plant Room 1119, Ceiling Space, On top of ceiling, Dust - Brown non-homogenous fibrous dust & debris | 7.5 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A10657 | External, GF, Central Wing, Northern Boiler Area, Ductwork Flange Joints, Mastic Sealant - Blue rubbery mastic material | 33 x 8 x 2 mm | No asbestos fibres detected |
| A10658 | External, GF, Central Wing, Northern Boiler Area, Infill Panel Above Oxygen Storage, Fibre Cement Sheeting - White painted beige layered fibre cement sheet material | 17 x 7 x 4 mm | No asbestos fibres detected Organic fibres detected |
| A10659 | External, GF, Central Wing, North Side, Entrance Awning Adjacent Room 1048, Fibre Cement Sheeting - White painted beige fibre cement sheet material | 25 x 10 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A10661 | External, GF, Central Wing, North Side, Eaves, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 14 x 8 x 3 mm | No asbestos fibres detected Organic fibres detected |
| A10662 | External, GF, West Wing, Western Covered Area Adjacent Kitchen, Awning and Infill Panels, Fibre Cement Sheeting - White painted beige layered fibre cement sheet material | 31 x 12 x 5 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A10663 | External, GF, West Wing, Western Entrance Awning, Fibre Cement Sheeting - White painted peach fibre cement sheet material | 15 x 10 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A10664 | External, ROOF, Southeast Wing, Northwest Lower Roof Section, Waterproofing, Bituminous Membrane - Black bituminous material | 30 x 20 x 3 mm | Chrysotile (white asbestos) detected |
| A10665 | External, L1, Southeast Wing, Throughout, Eaves, Fibre Cement Sheeting - Grey compressed fibre cement sheet material | 31 x 12 x 2 mm | Chrysotile (white asbestos) detected |
| A10666 | External, ROOF, Central Wing, South Section, Eaves, Fibre Cement Sheeting - White painted beige layered fibre cement sheet material | 27 x 12 x 3 mm | No asbestos fibres detected Organic fibres detected |
| A10668 | External, ROOF, ED Wing, Eaves, Throughout, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 45 x 18 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A10669 | External, ROOF, Central Wing, North Section, Infill panel, Adjacent ladder access, Fibre Cement Sheeting - Beige fibre cement sheet material | 25 x 10 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A10670 | External, ROOF, Central Wing, North Section, Central Area, Ductwork Flange Joints, Mastic Sealant - Grey rubbery mastic material | 28 x 18 x 4 mm | No asbestos fibres detected |
| A10671 | Internal, GF, Central Wing, North Section, Corridor 1031, Fibrous Backed Viny Sheet - Brown vinyl sheet, fibrous backing material & amber adhesive | 57 x 37 x 3 mm | No asbestos fibres detected Organic fibres detected Synthetic mineral fibres detected |
| A10672 | External, GF, Central Wing, Central Courtyard, Wall lining, Entry, Fibre Cement Sheeting - Grey compressed fibre cement sheet material | 32 x 13 x 5 mm | Chrysotile (white asbestos) detected Amosite (brown asbestos) detected Crocidolite (blue asbestos) detected |
| A10673 | External, GF, Central Wing, Central Courtyard, Timber Window Frames, Window Caulking - Beige hardened mastic material | 45 x 10 x 8 mm | No asbestos fibres detected |
| A10674 | Internal, GF, Central Wing, North Section, Plant Room 1073, Pipework, Gasket Material - White painted beige fibrous gasket material | 30 x 12 x 4 mm | Chrysotile (white asbestos) detected |
| A10675 | Internal, GF, Central Wing, North Section, Plant Room 1073, Infill Panels, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 27 x 16 x 5 mm | No asbestos fibres detected Organic fibres detected |

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| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|---|-----------------|--|
| A10676 | Internal, GF, Central Wing, North Section, Plant Room 1073, Boiler, Large Gasket, Gasket Material - Beige fibrous gasket material | 20 x 14 x 4 mm | Chrysotile (white asbestos) detected |
| A10677 | Internal, GF, Central Wing, North Section, Plant Room 1073, Packing to Penetration Above Boilers, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 30 x 18 x 5 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A10678 | Internal, GF, Central Wing, North Section, Ceiling Space, Throughout, Debris, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 82 x 50 x 5 mm | No asbestos fibres detected Organic fibres detected |
| A10679 | Internal, GF, Central Wing, North Section, Ceiling Space, Throughout, Dust - Brown/white non-homogenous fibrous dust & debris | 3.4 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A10680 | Internal, GF, Central Wing, Ward A & B, Ceiling Space, All surfaces, Throughout, Dust - Brown non-homogenous fibrous dust & debris | 3.2 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A10681 | Internal, GF, Central Wing, Ward B, Floor covering, Room 1178, Throughout, Vinyl Floor Tiles (white) A. White vinyl tile B. Amber adhesive | 26 x 45 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A10682 | Internal, GF, Central Wing, Ward B, Various Throughout, Floor Covering (Mixed in With Blue Tiles), Vinyl Floor Tiles (White) A. White vinyl tile B. Amber adhesive | 52 x 28 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |
| A10683 | Internal, GF, Central Wing, North Section, Staff Room 1058, Sink Pad, Bituminous Material - Black bituminous material | 35 x 15 x 2 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A10684 | Internal, GF, Central Wing, North Section, Plant Room 1060, Infill Panels, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 37 x 35 x 4 mm | No asbestos fibres detected Organic fibres detected |
| A10686 | Internal, L2, Lift Motor Room, Electrical Cabinet, Dust - Brown non-homogenous fibrous dust & debris Black bituminous material containing Chrysotile (white asbestos) found within the sample raw weight: ~ 0.1486 g | 5.2 g | Chrysotile (white asbestos) detected Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A10687 | Internal, L1 , Southeast Wing, Ceiling Space, All surfaces, Throughout, Dust - Brown non-homogenous fibrous dust & debris | 2.1 g | No asbestos detected above the reporting limit of 0.1 g/kg Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A10688 | Internal, GF, Central Wing, North Section, Sub-Floor Area, Central North, Adjacent Hatch, Fibre Cement Sheeting - Grey compressed fibre cement sheet material | 35 x 30 x 2 mm | Chrysotile (white asbestos) detected |
| A10689 | Internal, GF, Central Wing, Day Surgery/Recovery, Ceiling Space Above Reception Area, Pipework, Gasket Material - Brown fibrous gasket material | 25 x 17 x 2 mm | Chrysotile (white asbestos) detected |
| A10685 | Internal, GF, Southeast Wing, Room 1191, Floor Covering, Vinyl Floor Tiles (Brown) - Brown vinyl tile & amber adhesive A. Green vinyl tile B. Amber adhesive | 64 x 32 x 3 mm | A. Chrysotile (white asbestos) detected B. No asbestos fibres detected |

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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 356688

| Client Details | |
|----------------|---|
| Client | Tetra Tech Coffey Pty Ltd |
| Attention | Ben McCann |
| Address | Level 20, Tower B, Citadel Tower, 799 Pacific Hwy, Chatswood, NSW, 2067 |

| Sample Details | |
|--------------------------------------|--|
| Your Reference | 754-NTLEN34707-1, Cessnock Hospital Survey |
| Number of Samples | 10 Dust, 13 Paint |
| Date samples received | 16/07/2024 |
| Date completed instructions received | 16/07/2024 |

Analysis Details

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

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

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

| Report Details | | |
|--------------------------------------|--|--|
| Date results requested by | 23/07/2024 | |
| Date of Issue | 23/07/2024 | |
| NATA Accreditation Number 2901. T | his document shall not be reproduced except in full. | |
| Accredited for compliance with ISO/I | EC 17025 - Testing. Tests not covered by NATA are denoted with * | |

Results Approved By

Giovanni Agosti, Group Technical Manager Loren Bardwell, Development Chemist **Authorised By**

Nancy Zhang, Laboratory Manager

Envirolab Reference: 356688 Revision No: R00



| Lead in Paint | | | | | | |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference | | 356688-2 | 356688-3 | 356688-5 | 356688-7 | 356688-9 |
| Your Reference | UNITS | L18530 | L18532 | L18534 | L18536 | L18538 |
| Date Sampled | | 11/07/2024 | 11/07/2024 | 11/07/2024 | 11/07/2024 | 11/07/2024 |
| Type of sample | | Paint | Paint | Paint | Paint | Paint |
| Date prepared | - | 17/07/2024 | 17/07/2024 | 17/07/2024 | 17/07/2024 | 17/07/2024 |
| Date analysed | - | 18/07/2024 | 18/07/2024 | 18/07/2024 | 18/07/2024 | 18/07/2024 |
| Lead in paint | %w/w | 1.2 | 2.1 | 0.30 | 8.7 | 4.1 |

| Lead in Paint | | | | | | |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference | | 356688-11 | 356688-14 | 356688-15 | 356688-17 | 356688-19 |
| Your Reference | UNITS | L18540 | L18543 | L18544 | L18546 | L18548 |
| Date Sampled | | 11/07/2024 | 11/07/2024 | 11/07/2024 | 11/07/2024 | 11/07/2024 |
| Type of sample | | Paint | Paint | Paint | Paint | Paint |
| Date prepared | - | 17/07/2024 | 17/07/2024 | 17/07/2024 | 17/07/2024 | 17/07/2024 |
| Date analysed | - | 18/07/2024 | 18/07/2024 | 18/07/2024 | 18/07/2024 | 18/07/2024 |
| Lead in paint | %w/w | 0.03 | 1.8 | 0.22 | 0.02 | 0.15 |

| Lead in Paint | | | | |
|----------------|-------|------------|------------|------------|
| Our Reference | | 356688-21 | 356688-22 | 356688-23 |
| Your Reference | UNITS | L18550 | L18551 | L18552 |
| Date Sampled | | 11/07/2024 | 11/07/2024 | 11/07/2024 |
| Type of sample | | Paint | Paint | Paint |
| Date prepared | - | 17/07/2024 | 17/07/2024 | 17/07/2024 |
| Date analysed | - | 18/07/2024 | 18/07/2024 | 18/07/2024 |
| Lead in paint | %w/w | 4.7 | 0.099 | 0.02 |

Envirolab Reference: 356688 Revision No: R00

| Lead (dust) | | | | | | |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference | | 356688-1 | 356688-4 | 356688-6 | 356688-8 | 356688-10 |
| Your Reference | UNITS | L18424 | L18533 | L18535 | L18537 | L18539 |
| Date Sampled | | 11/07/2024 | 11/07/2024 | 11/07/2024 | 11/07/2024 | 11/07/2024 |
| Type of sample | | Dust | Dust | Dust | Dust | Dust |
| Date prepared | - | 23/07/2024 | 23/07/2024 | 23/07/2024 | 23/07/2024 | 23/07/2024 |
| Date analysed | - | 23/07/2024 | 23/07/2024 | 23/07/2024 | 23/07/2024 | 23/07/2024 |
| Lead | mg/kg | 1,800 | 3,300 | 52,000 | 900 | 550 |

| Lead (dust) | | | | | | |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference | | 356688-12 | 356688-13 | 356688-16 | 356688-18 | 356688-20 |
| Your Reference | UNITS | L18541 | L18542 | L18545 | L18547 | L18549 |
| Date Sampled | | 11/07/2024 | 11/07/2024 | 11/07/2024 | 11/07/2024 | 11/07/2024 |
| Type of sample | | Dust | Dust | Dust | Dust | Dust |
| Date prepared | - | 23/07/2024 | 23/07/2024 | 23/07/2024 | 23/07/2024 | 23/07/2024 |
| Date analysed | - | 23/07/2024 | 23/07/2024 | 23/07/2024 | 23/07/2024 | 23/07/2024 |
| Lead | mg/kg | 49 | 52 | 340 | 740 | 970 |

Envirolab Reference: 356688 Revision No: R00

| Method ID | Methodology Summary |
|--------------------|--|
| Metals-020 | Determination of various metals by ICP-AES. |
| Metals-020/021/022 | Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS. |

Envirolab Reference: 356688 Page | 4 of 8

Revision No: R00

| QUALIT | | Du | Spike Recovery % | | | | | | | |
|------------------|-------|-------|--------------------|------------|---|------------|------------|-----|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-2 | [NT] |
| Date prepared | - | | | 17/07/2024 | 9 | 17/07/2024 | 17/07/2024 | | 17/07/2024 | |
| Date analysed | - | | | 18/07/2024 | 9 | 18/07/2024 | 18/07/2024 | | 18/07/2024 | |
| Lead in paint | %w/w | 0.005 | Metals-020/021/022 | <0.005 | 9 | 4.1 | 5.4 | 27 | 102 | |

Envirolab Reference: 356688

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| QUALI | QUALITY CONTROL: Lead (dust) | | | | | | Duplicate | | | |
|------------------|------------------------------|-----|------------|------------|---|------------|------------|-----|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date prepared | - | | | 23/07/2024 | 4 | 23/07/2024 | 23/07/2024 | | 23/07/2024 | |
| Date analysed | - | | | 23/07/2024 | 4 | 23/07/2024 | 23/07/2024 | | 23/07/2024 | |
| Lead | mg/kg | 1 | Metals-020 | <1 | 4 | 3300 | 3200 | 3 | 98 | [NT] |

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| Result Definiti | ons |
|-----------------|---|
| 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 |

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| Quality Contro | ol Definitions |
|------------------------------------|--|
| Blank | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples. |
| Duplicate | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable. |
| Matrix Spike | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| LCS (Laboratory Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample. |
| Surrogate Spike | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples. |

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

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

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

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AUSTRALIAN SAFER ENVIRONMENT & TECHNOLOGY PTY LTD

ABN 36 088 095 112

Our ref: ASET64810/ 67990 / 1 - 15

Your ref: 17.1624 - Cessnock Hospital - Main Building

NATA Accreditation No: 14484

29 May 2018

Practical Environmental Solutions PO Box 167 Mayfield NSW 2304

Attn: Mr Tony Milligan

NATA
WORLD RECOGNISED
ACCREDITATION

Accredited for compliance with ISO/IEC 17025.

Dear Tony

Asbestos Identification

This report presents the results of fifteen samples, forwarded by Practical Environmental Solutions on 29 May 2018, for analysis for asbestos.

1. Introduction: Fifteen samples forwarded were examined and analysed for the presence of asbestos.

2. Methods: The samples were examined under a Stereo Microscope and selected fibres were analysed by

Polarized Light Microscopy in conjunction with Dispersion Staining method(Australian Standard AS 4964 - 2004 and Safer Environment Method 1 as the supplementary work

instruction) (Qualitative Analysis only).

Results: Sample No. 1. ASET64810 / 67990 / 1. MB01 - Window mastic.

Approx dimensions 1.0 cm x 0.5 cm x 0.3 cm

The sample consisted of a fragment of a rubberised mastic material.

No asbestos detected.

Sample No. 2. ASET64810 / 67990 / 2. MB02 - Soffit lining outside Room 1171.

Approx dimensions 1.0 cm x 1.0 cm x 0.5 cm

The sample consisted of a fragment of a fibro plaster cement material containing organic fibres.

Chrysotile asbestos and Amosite asbestos detected.

Sample No. 3. ASET64810 / 67990 / 3. MB03 - Infill panel outside Room 1171.

Approx dimensions 0.4 cm x 0.3 cm x 0.2 cm

The sample consisted of a fragment of a fibro plaster like material.

Chrysotile asbestos detected.

Sample No. 4. ASET64810 / 67990 / 4. MB04 - FFCS eave soffit lining off Room 1012.

Approx dimensions 4.0 cm x 3.0 cm x 0.5 cm

The sample consisted of fragments of a soft plaster material containing mica like material.

No asbestos detected.

Sample No. 5. ASET64810 / 67990 / 5. MB05 - Asbestos rope to generator.

Approx dimensions 5.0 cm x 0.6 cm x 0.3 cm

The sample consisted of a piece of a fibrous rope of synthetic mineral fibres.

No asbestos detected.

Sample No. 6. ASET64810 / 67990 / 6. MB06 - FFCS infill panels off Room 1102.

Approx dimensions 2.0 cm x 1.0 cm x 0.35 cm

The sample consisted of a fragment of a fibro plaster cement material containing organic fibres.

No asbestos detected.





Sample No. 7. ASET64810 / 67990 / 7. MB07 - Brown VFTs to level 1. Approx dimensions 10.0 cm x 6.0 cm x 0.3 cm The sample consisted of a fragment of a hard floor tile.

Chrysotile asbestos detected.

Sample No. 8. ASET64810 / 67990 / 8. MB08 - Window mastic to ground floor. Approx dimensions 2.0 cm x 1.0 cm x 0.25 cm The sample consisted of a fragment of a soft mastic material. No asbestos detected.

Sample No. 9. ASET64810 / 67990 / 9. MB09 - FFCS ceiling lining. Approx dimensions 0.5 cm x 0.5 cm x 0.2 cm The sample consisted of a fragment of fibro plaster cement like material. Chrysotile asbestos detected.

Sample No. 10. ASET64810 / 67990 / 10. MB10 - Blue VFTs. Approx dimensions 15.0 cm x 10.0 cm x 0.3 cm The sample consisted of a fragment of a hard floor tile. Chrysotile asbestos detected.

Sample No. 11. ASET64810 / 67990 / 11. MB11 - White/Grey VFTs. Approx dimensions 20.0 cm x 15.0 cm x 0.3 cm The sample consisted of a fragment of a hard floor tile. Chrysotile asbestos detected.

Sample No. 12. ASET64810 / 67990 / 12. MB12 - FFCS ceiling lining. Approx dimensions 5.0 cm x 3.0 cm x 0.5 cm The sample consisted of a fragment of a fibro plaster cement material containing organic fibres. No asbestos detected.

Sample No. 13. ASET64810 / 67990 / 13. MB13 - Awning soffit (emergency entrance). Approx dimensions 1.0 cm x 1.0 cm x 0.45 cm The sample consisted of a fragment of a fibro plaster cement material containing organic fibres. No asbestos detected.

Sample No. 14. ASET64810 / 67990 / 14. MB14 - Paint room lagging. Approx dimensions 1.5 cm x 1.2 cm x 0.3 cm The sample consisted of a soft fibrous material. Amosite asbestos detected.

Sample No. 15. ASET64810 / 67990 / 15. MB15 - Eave soffit. Approx dimensions 2.0 cm x 2.0 cm x 0.25 cm The sample consisted of a fragment of a fibro plaster cement material containing organic fibres. No asbestos detected.

Analysed and reported by,

Nisansala Maddage. BSc(Hons), Grad Dip (Occ Hyg) Occupational Hygienist/Approved Identifier Approved Signatory

Accredited for compliance with ISO/IEC 17025.

ACCREDITATION

Appendix C: Photographs





Line ID 1: External, GF, Central Wing, Central Courtyard, Timber Window Frames, Window Caulking - No Asbestos Detected



Line ID 2: External, GF, Central Wing, Central Courtyard, Wall Lining, Entry, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 2.1: External, GF, Central Wing, Central Courtyard, Wall Lining, Entry, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 3: External, GF, Central Wing, North Side, Eaves, Fibre Cement Sheeting - No Asbestos Detected



Line ID 4: External, GF, Central Wing, North Side, Entrance Awning Adjacent Room 1048, Fibre Cement Sheeting - No Asbestos Detected



Line ID 5: External, GF, Central Wing, North Side, Infill Panels Above Windows, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 6: External, GF, Central Wing, Northern Boiler Area, Ductwork Flange Joints, Mastic Sealant - No Asbestos Detected



Line ID 7: External, GF, Central Wing, Northern Boiler Area, Infill Panel Above Oxygen Storage, Fibre Cement Sheeting - No Asbestos Detected



Line ID 8: External, GF, Central Wing, Northern Boiler Area, Metal Encased Pipework, Lagging - Suspected Asbestos



Line ID 9: External, GF, Central Wing, Northern Boiler Area, Residue to Pipework, Lagging - No Asbestos Detected



Line ID 10: External, GF, Central Wing, Northern Generator Awning, Fibre Cement Sheeting - No Asbestos Detected



Line ID 11: External, GF, Central Wing, South Side, Infill Panels Above Windows, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 12: External, GF, Central Wing, South Side, Metal Window Frames, Window Caulking - Chrysotile Asbestos Detected



Line ID 13: External, GF, Central Wing, Southeast Side, Plant Room, Entrance Door, Fire Door Core - Suspected Asbestos



Line ID 13.1: External, GF, Central Wing, Southeast Side, Plant Room, Entrance Door, Fire Door Core - Suspected Asbestos



Line ID 14: External, GF, ED Wing, Eaves, Throughout, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 15: External, GF, ED Wing, Emergency Entrance, Wall lining, Southwest, Compressed Cement Sheeting - No Asbestos Detected



Line ID 16: External, GF, ED Wing, Main Entrance, Construction Joint Mastic - No Asbestos Detected



Line ID 17: External, GF, ED Wing, Main Entrance, Awning, Fibre Cement Sheeting - No Asbestos Detected



Line ID 18: External, GF, ED Wing, Northern Entrance, Wall Lining, Southwest, Compressed Cement Sheeting - No Asbestos Detected



Line ID 19: External, GF, ED Wing, Roof, East and West Sides, Infill Panels Below Roof Gable, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 20: External, GF, ED Wing, Roof, Gable Verge Lining, East & West, Fibre Cement Sheeting - No Asbestos Detected



Line ID 21: External, GF, West Wing, Eastern Entrance Awning, Adjacent Room 1171, Fibre Cement Sheeting -Chrysotile & Amosite Asbestos Detected



Line ID 22: External, GF, West Wing, North Section, Eaves, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 23: External, GF, West Wing, North Section, Infill Panels Above Windows, Fibre Cement Sheeting - No Asbestos Detected



Line ID 23.1: External, GF, West Wing, North Section, Infill Panels Above Eaves, Fibre Cement Sheeting - No Asbestos Detected



Line ID 24: External, GF, West Wing, South Side, Eaves, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 25: External, GF, West Wing, Western Covered Area Adjacent Kitchen, Awning and Infill Panels, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 25.1: External, GF, West Wing, Western Covered Area Adjacent Kitchen, Awning and Infill Panels, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 26: External, GF, West Wing, Western Entrance Awning, Fibre Cement Sheeting - No Asbestos Detected



Line ID 27: External, L1, Southeast Wing, Throughout, Eaves, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 27.1: External, L1, Southeast Wing, Throughout, Eaves, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 28: External, Roof, Central Wing, North Section, Central Area, Ductwork Flange Joints, Mastic Sealant -No Asbestos Detected



Line ID 29: External, Roof, Central Wing, North Section, Central Area, Infill Panels Below Roof Gable, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 30: External, Roof, Central Wing, North Section, Infill Panel, Adjacent Ladder Access, Fibre Cement Sheeting - No Asbestos Detected



Line ID 31: External, Roof, Central Wing, South Section, Eaves, Fibre Cement Sheeting - No Asbestos Detected



Line ID 32: External, Roof, Central Wing, South Section, North Side, Infill Panel, Fibre Cement Sheeting - None Suspected



Line ID 33: External, Roof, ED Wing, Eaves, Throughout, Fibre Cement Sheeting - No Asbestos Detected



Line ID 34: External, Roof, ED Wing, West Side, Infill Panels, Fibre Cement Sheeting - None Suspected



Line ID 35: External, Roof, Southeast Wing, Northwest Lower Roof Section, Waterproofing, Bituminous Membrane - Chrysotile Asbestos Detected



Line ID 36: Internal, GF, All Areas, Ceiling Space, Various Throughout, Heater Banks to AC Ducting, Internal Lining, Millboard Insulation - Suspected Asbestos



Line ID 37: Internal, GF, All Areas, Various Throughout, Doors, Fire Door Core - None Suspected



Line ID 37.1: Internal, GF, All Areas, Various Throughout, Doors, Fire Door Core - None Suspected



Line ID 38: Internal, GF, Central Wing, Day Surgery/Recovery, Ceiling Space Above Reception Area, Pipework, Gasket Material
- Chrysotile Asbestos Detected



Line ID 39: Internal, GF, Central Wing, Day Surgery/Recovery, Ceiling Space Ladder Access Point Adjacent Reception, Floor Covering, Vinyl Floor Tiles -Chrysotile Asbestos Detected



Line ID 40: Internal, GF, Central Wing, Day Surgery/Recovery, Floor covering, Throughout, Vinyl Floor Tiles (white with grey specks) - Chrysotile Asbestos Detected



Line ID 41: Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Penetration, Pipework, Lagging - Amosite Asbestos Detected



Line ID 41.1: Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Penetration, Pipework, Lagging - Amosite Asbestos Detected



Line ID 42: Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Throughout, Dust - No Asbestos Detected



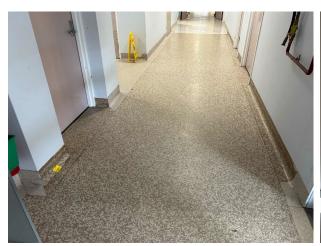
Line ID 43: Internal, GF, Central Wing, North Section, Ceiling Space Above Plant Room 1073, Pipework, Lagging - Amosite Asbestos Detected



Line ID 44: Internal, GF, Central Wing, North Section, Ceiling Space, South and East Sides, Walls, Fibre Cement Sheeting – Suspected Asbestos



Line ID 45: Internal, GF, Central Wing, North Section, Ceiling Space, Throughout, Dust - No Asbestos Detected



Line ID 47: Internal, GF, Central Wing, North Section, Corridor 1031, Floor Covering, Fibrous Backed Viny Sheet - No Asbestos Detected



Line ID 48: Internal, GF, Central Wing, North Section, Pharmacy 1075 and 1076, Ceiling Space, Lagging - Amosite Asbestos Detected



Line ID 49: Internal, GF, Central Wing, North Section, Pharmacy 1075, Sink Pad, Bituminous Material -Chrysotile Asbestos Detected



Line ID 50: Internal, GF, Central Wing, North Section, Plant Room 1060, Infill Panels, Fibre Cement Sheeting - No Asbestos Detected



Line ID 51: Internal, GF, Central Wing, North Section, Plant Room 1073, Boiler, Large Gasket, Gasket Material -Chrysotile Asbestos Detected



Line ID 51.1: Internal, GF, Central Wing, North Section, Plant Room 1073, Boiler, Large Gasket, Gasket Material - Chrysotile Asbestos Detected



Line ID 52: Internal, GF, Central Wing, North Section, Plant Room 1073, Boilers, Insulation - Suspected Asbestos



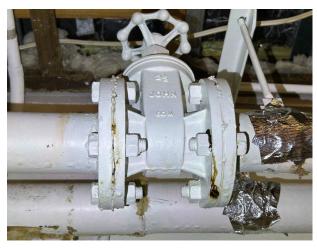
Line ID 53: Internal, GF, Central Wing, North Section, Plant Room 1073, Electrical Switch Board, Bituminous Backing Board - Suspected Asbestos



Line ID 54: Internal, GF, Central Wing, North Section, Plant Room 1073, Infill Panels, Fibre Cement Sheeting -No Asbestos Detected



Line ID 55: Internal, GF, Central Wing, North Section, Plant Room 1073, Packing to Penetration Above Boilers, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 56: Internal, GF, Central Wing, North Section, Plant Room 1073, Pipework, Gasket Material - Chrysotile Asbestos Detected



Line ID 57: Internal, GF, Central Wing, North Section, Plant Room 1073, Wall Cavity, Penetration, Lagging - Amosite Asbestos Detected



Line ID 57.1: Internal, GF, Central Wing, North Section, Plant Room 1073, Wall Cavity, Penetration, Lagging -Amosite Asbestos Detected



Line ID 58: Internal, GF, Central Wing, North Section, Plant Room 1119, Ceiling Space, Ceiling, Fibre Cement Sheeting -Chrysotile Asbestos Detected



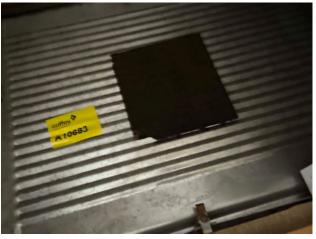
Line ID 59: Internal, GF, Central Wing, North Section, Plant Room 1119, Ceiling Space, Debris, Fibre Cement Debris - Chrysotile Asbestos Detected



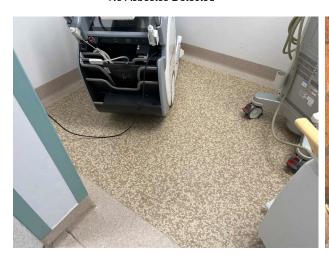
Line ID 60: Internal, GF, Central Wing, North Section, Plant Room 1119, Ceiling Space, on Top of Ceiling, Dust - No Asbestos Detected



Line ID 61: Internal, GF, Central Wing, North Section, Room 1033, Floor Covering, Fibrous Backed Viny Sheet -No Asbestos Detected



Line ID 62: Internal, GF, Central Wing, North Section, Staff Room 1058, Sink Pad, Bituminous Material - Chrysotile Asbestos Detected



Line ID 63: Internal, GF, Central Wing, North Section, Storeroom 1062, Fibrous Backed Viny Sheet - No Asbestos Detected



Line ID 64: Internal, GF, Central Wing, North Section, Sub-Floor Area, Central North, Adjacent Hatch, Fibre Cement Sheeting -Chrysotile Asbestos Detected



Line ID 65: Internal, GF, Central Wing, Ward A, Room 1092, Floor Covering, Vinyl Floor Tiles (Brown) -Chrysotile Asbestos Detected



Line ID 66: Internal, GF, Central Wing, Ward A, Room 1096, Wall Cavities, Pipework, Lagging - Amosite Asbestos Detected



Line ID 66.1: Internal, GF, Central Wing, Ward A, Room 1096, Wall Cavities, Pipework, Lagging - Amosite Asbestos Detected



Line ID 67: Internal, GF, Central Wing, Ward A, Room 1097, Within Wall Cavity, Pipework, Lagging - Amosite Asbestos Detected



Line ID 68: Internal, GF, Central Wing, Ward A, Room 1104, Wall Cavity Adjacent Toilet, Pipework, Lagging -Amosite Asbestos Detected



Line ID 69: Internal, GF, Central Wing, Ward A, Rooms 1104, 1105, 1107, 1108 and 1110, Vinyl Floor Tiles (Brown) - Chrysotile Asbestos Detected



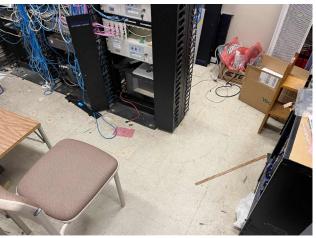
Line ID 70: Internal, GF, Central Wing, Ward A, Staff Room 1118, Floor Covering, Fibrous Backed Viny Sheet -No Asbestos Detected



Line ID 71: Internal, GF, Central Wing, Ward A & B, Ceiling Space, All surfaces, Throughout, Dust - No Asbestos Detected



Line ID 72: Internal, GF, Central Wing, Ward A & B, Ceiling Space, Door, Fire Door Core - None Suspected



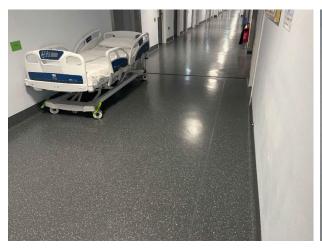
Line ID 73: Internal, GF, Central Wing, Ward B, Floor Covering, Room 1178, Throughout, Vinyl Floor Tiles (white) - Chrysotile Asbestos Detected



Line ID 73.1: Internal, GF, Central Wing, Ward B, Floor Covering, Room 1178, Throughout, Vinyl Floor Tiles (white) - Chrysotile Asbestos Detected



Line ID 74: Internal, GF, Central Wing, Ward B, Floor covering, Various Throughout, Vinyl Floor Tiles (blue) - Chrysotile Asbestos Detected



Line ID 75: Internal, GF, Central Wing, Ward B, Floor Covering, Various Throughout, New Style Sheet Vinyl (black with white specs) - None Suspected



Line ID 76: Internal, GF, Central Wing, Ward B, Floor Covering, Various Throughout, New Style Sheet Vinyl (Cream) - None Suspected



Line ID 77: Internal, GF, Central Wing, Ward B, Room 1164, Distribution Boards, Electrical Components - None Suspected



Line ID 78: Internal, GF, Central Wing, Ward B, Rooms 1174, 1176 & 1177, Floor Covering, Vinyl Floor Tiles (white with grey specks) - Chrysotile Asbestos Detected



Line ID 78.1: Internal, GF, Central Wing, Ward B, Rooms 1174, 1176 & 1177, Floor Covering, Vinyl Floor Tiles (white with grey specks) - Chrysotile Asbestos Detected



Line ID 79: Internal, GF, Central Wing, Ward B, Various Throughout, Floor Covering (Mixed in With Blue Tiles), Vinyl Floor Tiles (White) - Chrysotile Asbestos Detected



Line ID 80: Internal, GF, Southeast Wing, Ceiling Space, Throughout, Lagging - Amosite Asbestos Detected



Line ID 80.1: Internal, GF, Southeast Wing, Ceiling Space, Throughout, Lagging - Amosite Asbestos Detected



Line ID 81: Internal, GF, Southeast Wing, Double Door to Room 1213, Fire Door Core - Suspected Asbestos



Line ID 82: Internal, GF, Southeast Wing, Reception Room 1237 and Drug Room 1238, Wall Cavities, Pipework, Lagging -Amosite Asbestos Detected



Line ID 82.1: Internal, GF, Southeast Wing, Reception Room 1237 and Drug Room 1238, Wall Cavities, Lagging - Amosite Asbestos Detected



Line ID 83: Internal, GF, Southeast Wing, Room 1191, Floor Covering, Vinyl Floor Tiles (Brown) - Chrysotile Asbestos Detected



Line ID 84: Internal, GF, Southeast Wing, Room 1195, Wall Cavity, Pipework, Lagging - Amosite Asbestos Detected



Line ID 85: Internal, GF, Southeast Wing, Room 1202, Ceiling Space, Pipework, Lagging - Amosite Asbestos Detected



Line ID 86: Internal, GF, Southeast Wing, Rooms 1201, 1202, and 1203, Ceiling, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 86.1: Internal, GF, Southeast Wing, Rooms 1201, 1202, and 1203, Ceiling, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 87: Internal, GF, Southeast Wing, Southern Sub-Floor Area, Adjacent Entrance, Electrical Board, Bituminous Backing Board - Suspected Asbestos



Line ID 88: Internal, GF, Southeast Wing, Southern Sub-Floor Area, Central, Debris, Woven Material - No Asbestos Detected



Line ID 89: Internal, GF, Southeast Wing, Southern Sub-Floor Area, Central, Pipework, Gasket Material - No Asbestos Detected



Line ID 90: Internal, GF, Southeast Wing, Southern Sub-Floor Area, Throughout, Dust - No Asbestos Detected



Line ID 91: Internal, L1, Southeast Wing, Ceiling Space, All surfaces, Throughout, Dust - No Asbestos Detected



Line ID 92: Internal, L1, Southeast Wing, Ceiling Space, Central, Pipework, Lagging - Amosite Asbestos Detected



Line ID 93: Internal, L1, Southeast Wing, Ceiling Space, North, Stored On Ledge, Woven Material - Suspected Asbestos



Line ID 94: Internal, L1, Southeast Wing, Ceiling Space, South, Old Water Tanks, Moulded Fibre Cement - Suspected Asbestos



Line ID 95: Internal, L1, Southeast Wing, Ceiling Space, Waterproofing to Underside of Roof, Bituminous Material -Suspected Asbestos



Line ID 96: Internal, L1, Southeast Wing, Central Corridor and Rooms 2002, 2003, 2004, 2005, 2006, 2010, 2011, 2015, 2016, 2017, 2018, 2020, 2023, 2024, 2026 and 2029, Vinyl Floor Tiles (Brown) - Chrysotile Asbestos Detected



Line ID 97: Internal, L1, Southeast Wing, Room 2006, Wall Cavity, Lagging - Amosite Asbestos Detected



Line ID 98: Internal, L1, Southeast Wing, Room 2014, Wall Cavity, Lagging - Amosite Asbestos Detected



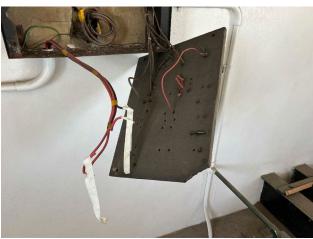
Line ID 99: Internal, L1, Southeast Wing, Rooms 2033 and 2034, Below Carpet, Floor Covering, Vinyl Floor Tiles (Brown) - Chrysotile Asbestos Detected



Line ID 100: Internal, L2, Lift Motor Room, Adjacent Motor, Wire Insulation, Woven Material - Suspected Asbestos



Line ID 101: Internal, L2, Lift Motor Room, Central Electrical Cabinet, Flash Arrestors, Fibre Cement Sheeting - Suspected Asbestos



Line ID 102: Internal, L2, Lift Motor Room, Electrical Cabinet, Bituminous Backing Board - Suspected Asbestos



Line ID 103: Internal, L2, Lift Motor Room, Electrical Cabinet, Dust - Chrysotile Asbestos Detected



Line ID 104: Internal, L2, Lift Motor Room, Electrical Cabinet, Wire Insulation, Woven Material - Suspected Asbestos



Line ID 105: Internal, L2, Lift Motor Room, Lift Motor, Friction Pads - Suspected Asbestos



Line ID 106: External, GF, Central Wing, Central Courtyard, Windows & Frames, Throughout, White Paint - Lead Detected (1.8% w/w)



Line ID 107: External, GF, Central Wing, Northern Courtyard, Ductwork, Throughout, Grey (Light) Paint -Lead Detected (0.22% w/w)



Line ID 108: External, GF, Central Wing, Northern Courtyard, Timber Window Frames, White Paint - Lead Detected (1.8% w/w)



Line ID 108.1: External, GF, Central Wing, Northern Courtyard, Timber Window Frames, White Paint - Lead Detected (1.8% w/w)



Line ID 109: External, GF, Southeast Wing, Door & Frames, Various Throughout, Pink (Light) Paint - Lead Detected (0.02% w/w)



Line ID 109.1: External, GF, Southeast Wing, Door & Frames, Various Throughout, Pink (Light) Paint - Lead Detected (0.02% w/w)



Line ID 110: External, GF, Southeast Wing, Door & Frames, Various Throughout, Purple (Light) Paint - Lead Detected (0.15% w/w)



Line ID 111: External, GF and L1, Southeast Wing, Throughout, Timber Window Frames, White Paint - Lead Detected (4.7% w/w)



Line ID 112: Internal, GF, All Areas, Various Throughout, Walls, Light Purple Paint - Lead Detected (1.2 % w/w)



Line ID 113: Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Walls, White Paint - Lead Detected (0.099% w/w)



Line ID 114: Internal, GF, Central Wing, North Section, Plant Room 1073, Floor, Cream Paint - Lead Detected (0.03% w/w)



Line ID 115: Internal, GF, Central Wing, North Section, Plant Room 1119, Ceiling Space, Walls, White Paint -Lead Detected (0.02% w/w)



Line ID 116: Internal, GF, Central Wing, North Section, Plant Doom 1060, Walls, Cream Paint - Lead Detected (8.7% w/w)



Line ID 117: Internal, GF, Central Wing, Ward A & B, Ceiling Space, Brickwork Lining, White Paint - Lead Detected (4.1% w/w)



Line ID 117.1: Internal, GF, Central Wing, Ward A & B, Ceiling Space, Brickwork Lining, White Paint - Lead Detected (4.1% w/w)



Line ID 118: Internal, GF, Southeast Wing, All Areas, Walls, Light Purple Paint - Lead Detected (1.2 % w/w)



Line ID 119: Internal, L1, Southeast Wing, All Areas, Walls, Cream Paint - Lead Detected (0.30% w/w)



Line ID 120: Internal, L2, Lift Motor Room, Lift Motor, Green Paint - Lead Detected (2.1 % w/w)



Line ID 121: Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Throughout, Dust - Lead Detected (970mg/kg)



Line ID 122: Internal, GF, Central Wing, North Section, Ceiling Space, Throughout, Dust - Lead Detected (49mg/kg)



Line ID 123: Internal, GF, Central Wing, North Section, Plant Doom 1060, Throughout, Dust - Lead Detected (52,000mg/kg)



Line ID 124: Internal, GF, Central Wing, North Section, Plant Room 1073, Throughout, Dust - Lead Detected (550 mg/kg)



Line ID 125: Internal, GF, Central Wing, North Section, Plant Room 1119, Ceiling Space, Dust - Lead Detected (340mg/kg)



Line ID 126: Internal, GF, Central Wing, Ward A & B, Ceiling Space, All surfaces, Throughout, Dust - Lead Detected (900mg/kg)



Line ID 127: Internal, GF, ED Wing, Ceiling Space, On top of Ceiling, Throughout, Dust - Lead Detected (52 mg/kg)



Line ID 128: Internal, GF, Southeast Wing, Southern Sub-Floor Area, Throughout, Dust - Lead Detected (740mg/kg)



Line ID 129: Internal, GF and L1, Southeast Wing, Ceiling Space, All surfaces, Throughout, Dust - Lead Detected (1,800 mg/kg)



Line ID 130: Internal, L2, Lift Motor Room, On Floor, Dust - Lead Detected (3,300 mg/kg)



Line ID 131: External, GF, Central Wing, Central Alleyway, Pipework debris, Insulation Material - Suspected SMF



Line ID 132: External, GF, Central Wing, Central Courtyard, Boilers and Associated Pipework, Insulation Material - Suspected SMF



Line ID 133: External, GF, Central Wing, Central Courtyard, Pipework, Central, Insulation Material - Suspected SMF



Line ID 134: External, GF, Central Wing, Northern Boiler Area, Boilers, Insulation Material - Suspected SMF



Line ID 135: Internal, GF, All Areas, Ceiling Space, Ductwork, Insulation Material - Suspected SMF



Line ID 136: Internal, GF, All Areas, Ceiling Space, Pipework, Insulation Material - Suspected SMF



Line ID 137: Internal, GF, All Areas, Ceiling Space, Throughout, Sarking Insulation - Suspected SMF



Line ID 138: Internal, GF, All Areas, Staff Rooms and Kitchens, Water Heaters, Insulation Material - Suspected SMF



Line ID 139: Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Boilers, Insulation Material - Suspected SMF



Line ID 139.1: Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Boilers, Insulation Material - Suspected SMF



Line ID 140: Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Pipework, Insulation Material - Suspected SMF



Line ID 141: Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Pipework Debris, Insulation Material - Suspected SMF



Line ID 142: Internal, GF, Central Wing, Day Surgery/Recovery, Plant Room, Water Heater, Insulation Material - Suspected SMF



Line ID 143: Internal, GF, Central Wing, North Section, Ceiling Space, Ductwork, Throughout, Insulation Material
- Suspected SMF



Line ID 144: Internal, GF, Central Wing, North Section, Ceiling Space, Flexible Ductwork, Throughout, Insulation Material - Suspected SMF



Line ID 145: Internal, GF, Central Wing, North Section, Ceiling Space, Sarking, Roof Lining, Insulation Material -Suspected SMF



Line ID 146: Internal, GF, Central Wing, North Section, Plant Room 1073, Pipework Above Boilers, Insulation Material -Suspected SMF



Line ID 147: Internal, GF, Central Wing, North Section, Plant Room 1119, Ceiling Space, Ductwork, Insulation Material - Suspected SMF



Line ID 148: Internal, GF, Central Wing, North Section, Plant Room 1119, Ceiling Space, Insulation Batts, Insulation Material -Suspected SMF



Line ID 149: Internal, GF, Central Wing, North Section, Plant Room 1119, Ductwork, Insulation Material -Suspected SMF



Line ID 150: Internal, GF, Central Wing, North Section, Plant Room 1119, Pipework, Insulation Material - Suspected SMF



Line ID 151: Internal, GF, Central Wing, North Section, Sub-Floor Area, Pipework, Insulation Material - Suspected SMF



Line ID 152: Internal, GF, Central Wing, Ward A & B, Ceiling Space, Ductwork, Insulation Material - Suspected SMF



Line ID 153: Internal, GF, Central Wing, Ward A & B, Ceiling Space, Flexible ductwork, Insulation Material - Suspected SMF



Line ID 154: Internal, GF, Central Wing, Ward A & B, Ceiling Space, Pillow insulation, Penetrations adjacent ladder, Insulation Material - Suspected SMF



Line ID 155: Internal, GF, ED Wing, Ceiling Space, Ductwork, Various Throughout, Insulation Batts -Suspected SMF



Line ID 156: Internal, GF, ED Wing, Ceiling Space, Insulation Batts, Throughout, Insulation Material - Suspected SMF



Line ID 157: Internal, GF, ED Wing, Ceiling Space, Sarking, Roof Lining, Insulation Material - Suspected SMF



Line ID 158: Internal, GF, Southeast Wing, Central Corridor, Central, Compressed Ceiling Tiles - Suspected SMF



Line ID 159: Internal, GF, Southeast Wing, Room 1191, Water Heater, Insulation Material - Suspected SMF



Line ID 160: Internal, L1, Southeast Wing, Ceiling Space, North, Old Metal Water Tank, Insulation Material - Suspected SMF



Line ID 161: Internal, GF, Southeast Wing, Southern Sub-Floor Area, Light Fittings, Capacitor(s) - Suspected PCB



Line ID 162: External, GF, Central Wing, Central Courtyard, AC Unit, R410A Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 163: External, GF, Central Wing, North Side, R410A Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 164: External, GF, Central Wing, Northern Boiler Area, Chillers, Unknown Refrigerant - Suspected ODS



Line ID 165: External, GF, Central Wing, South Side, Unknown Refrigerant - Suspected ODS



Line ID 165.1: External, GF, Central Wing, South Side, Unknown Refrigerant - Suspected ODS



Line ID 166: External, GF, Central Wing, South Side, AC Unit, R410A Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 167: External, GF, ED Wing, North Side, AC Unit, R410A Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 168: External, GF, West Wing, South Side, R32 Refrigerant - Non ODS Refrigerant



Line ID 169: External, GF, West Wing, South, East and West Sides, R410A Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 170: External, GF and L1, Southeast Wing, East and West Sides, AC Units, R410A and R32 Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 171: Internal, GF, Central Wing, North Section, Pharmacy 1075, AC Unit, Unknown Refrigerant - Suspected ODS



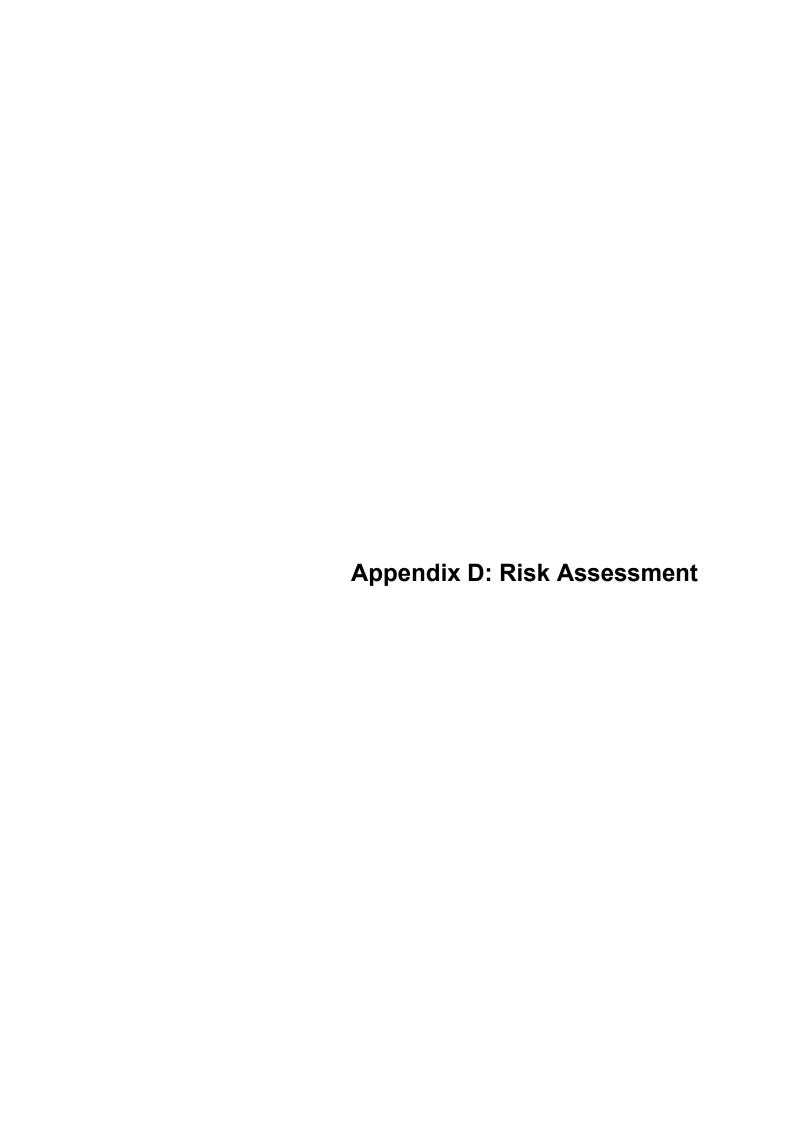
Line ID 172: Internal, GF, Central Wing, North Section, Plant Room 1119, Chiller, R404A Hydrofluorocarbon (HFC) - Non ODS Refrigerant



Line ID 173: Internal, GF, Central Wing, Ward A, Staff Room 1118, AC Unit, Unknown Refrigerant - Suspected ODS



Line ID 174: External, L1, Radio Transmitter Tower – No Access.





Risk Assessment

The risk assessment is explained, in the tables below. Our semi-quantitative risk assessment borrows elements from the materials risk assessment documented in HSG264: Asbestos: The survey guide – HSE and the priority risk assessment documented in HSG 227: A comprehensive guide to Managing Asbestos in premises – HSE, providing an element of quantification to the qualitative nature of site risk assessment.

Some of the elements of these well documented risk assessments have been omitted. Most notably the asbestos type from the materials risk assessment, as all types of asbestos are listed by the International Agency for Research on Cancer (IARC) as Type 1 Carcinogens. In addition, we have omitted the maintenance activity from HSG 277. The reason being that human risk factors associated with maintenance activities are often difficult to assess in-situ and require detailed input from the Person in Control of a Business of Undertaking (PCBU).

The risk assessment then takes into account all other Hazardous materials and utilizes similar algorithms to create a risk assessment for those materials.

The asbestos containing material risk score is a quantitative assessment determined by the sum of the scores based on the material assessment and the likelihood of exposure, i.e. Risk score = Material Score + Location Score (out of as possible 18).

An explanation of the material assessment and likelihood of exposure scores can be found in the tables below.

Table 2 - Risk Scores

| Overall Risk Assessment Score | Overall Risk Rating |
|-------------------------------|---------------------|
| 0 – 4 | Very Low |
| 5 – 8 | Low |
| 9 – 13 | Moderate |
| 14 – 18 | High |

Table 3 – Product Type (or debris)

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|--|--|-------|
| Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement etc.) | SMF composite products / insulation batts / woven products, Lead paint, Lead Compounds/Alloys/Products, Small PCB containing electrical capacitors | 1 |
| Asbestos insulating board, mill boards, other low- density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt | RCF woven/treated products, Lead paint flakes, Industrial PCB containing industrial transformers | 2 |
| Thermal insulation (e.g. pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing | RCF loose fill products, Lead dust, PCB containing oils in bulk storage, or uncontained spills. | 3 |

Table 4 – Extent of Damage or Deterioration

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Good condition: no visible damage | Good condition: no visible damage | 0 |
| Low damage: a few scratches or surface marks; broken edges on boards, tiles etc. | Low damage: a few scratches or surface marks; Peeling paint, Large paint flakes, Redundant PCB container in accessible area out of electrical product | 1 |
| Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres | Medium damage: significant breakage of materials or several small areas where material has been damaged, good condition sprays and insulation, large amounts of fine flaking paint and debris, Leaking PCB containing electrical equipment | 2 |
| High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris | High damage or delamination of materials. Visible debris, Lead dust, Pooling PCB oils, leaking oil bulk containers | 3 |

Table 5 – Surface type and treatment

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles | SMF/RCF composite products, insulation products sealed behind a non-friable barrier, Lead paints <0.1%w/w, lead, compounds/ alloys/ products <0.1%w/w lead, PCB oils <2mg/kg | 0 |
| Enclosed sprays and lagging, asbestos insulating board (with exposed face painted or encapsulated), asbestos cement sheets etc. | SMF/RCF woven and insulation products, Lead paints ≥0.1%w/w and <0.25%w/w, PCB ≥2mg/kg and <50mg/kg in oil | 1 |
| Unsealed asbestos insulating board, or encapsulated lagging and sprays | SMF/RCF heat-treated insulation products, Lead paints ≥0.25%w/w and <1.0%w/w, Lead dusts above recommended clearance indicator based on AS/NZS4361.2. PCB ≥50mg/kg and <10,000mg/kg in oil | 2 |
| Unsealed laggings and sprayed asbestos | Lead dusts a multiple of at least 5 times above recommended clearance indicator based on AS/NZS4361.2, Lead paint >1.0%, ≥10,000mg/kg in oil (10%w/w) | 3 |

 $^{^{\}rm 2}$ Lead and PCB refers specifically to the analysis result





Legislative Requirements

The assessment, and preparation of this report have been undertaken in accordance with the requirements of State/Territories legislation and standards outlined below.

State/Territories Relevant Legislation

| States & Territories | Acts | Legislation |
|------------------------------------|--|--|
| Australian Capital Territory (ACT) | ACT Work Health & Safety Act 2011 | ACT Work Health & Safety Regulation 2011 |
| New South Wales (NSW) | NSW Work Health & Safety Act 2011 | NSW Work Health & Safety Regulation 2017 |
| Northern Territory (NT) | NT Work Health & Safety Act 2011 | NT Work Health & Safety Regulation 2017 |
| Queensland (QLD) | QLD Work Health & Safety Act 2011 | QLD Work Health & Safety Regulation 2011 |
| South Australia (SA) | SA Work Health & Safety Act 2012 | SA Work Health & Safety Regulation 2012 |
| Tasmania (TAS) | Tasmanian Work Health & Safety Act 2012 | Tasmanian Work Health & Safety Regulation 2012 |
| Victoria (VIC) | Victorian Occupational Health and Safety Act 2004 | Victorian Occupational Health and Safety Regulation 2017 |
| Western Australia (WA) | Occupational Safety and Health Act 1984 | Occupational Safety and Health Regulation 1996 |

States/Territories Code of Practices & Compliance Codes

| States & Territories | Codes of Practices & Compliance Codes | | | |
|------------------------------------|--|---|--|--|
| Australian Capital Territory (ACT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| New South Wales (NSW) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Northern Territory (NT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Queensland (QLD) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| South Australia (SA) | Code of Practice: How to manage and Control asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Tasmania (TAS) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. | | |
| Victoria (VIC) | Compliance Code: Managing Asbestos in Workplaces. | Compliance Code: Removing Asbestos in Workplaces. | | |

| Western Australia (WA) | Code of Practice for Management and Control of Asbestos in Workplaces [NOHSC:2018(2005)]. | Code of Practice for the Safe Removal of Asbestos [NOHSC:2002(2005)] |
|------------------------|--|--|
|------------------------|--|--|

The Victorian Compliance Codes align with the intent of the SafeWork Australia Model Code of Practice

Hazardous Materials Standard & Guidance Notes

| Hazardous Material | Guidance Notes | |
|-------------------------------|---|--|
| Lead Based Paint | AS/NZS <i>4361.2:2017</i> Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings | |
| Lead Containing Dust | National Environmental Protection Measure (NEPM) (NEPC,1999) as updated in 2013. | |
| Synthetic Mineral Fibres | National Occupational Health and Safety Commission (1990) Synthetic Mineral Fibres; National Standard for Synthetic Mineral Fibres; and the National Code of Practice for the Safe Use of Synthetic Mineral Fibres | |
| Polychlorinated Biphenyls | ANZECC (1997) Identification of PCB-containing Capacitors: An Information Booklet for Electricians and Electrical Contractors | |
| Ozone Depleting Substances | UNEP (2001) Inventory of Trade Names of Chemical Products containing Ozone Depleting Substances and their Alternatives | |

Each section is to be read in conjunction with the whole of this report, including the appendices.

Appendix F: Methodology



Methodology

Hazmat surveys are undertaken considering a risk management approach, in accordance with relevant statutory regulations and relevant Codes of Practice. A risk assessment was conducted based on a number of factors associated with hazmat identified during the survey and prioritised through Risk and Action Classifications.

The assessment involved the onsite investigation for the presence of ACM, SMF, LBP systems, LCD, PCB and ODS including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs). Information was collected from the site owners/occupiers/tenants where available on relevant issues pertaining to the site. Based on the available data and the status at the time of inspection, where items were identified, visual and/or analytical characterisation (where required) was performed and reported in **Appendix A: Asbestos and Hazardous Materials Register**.

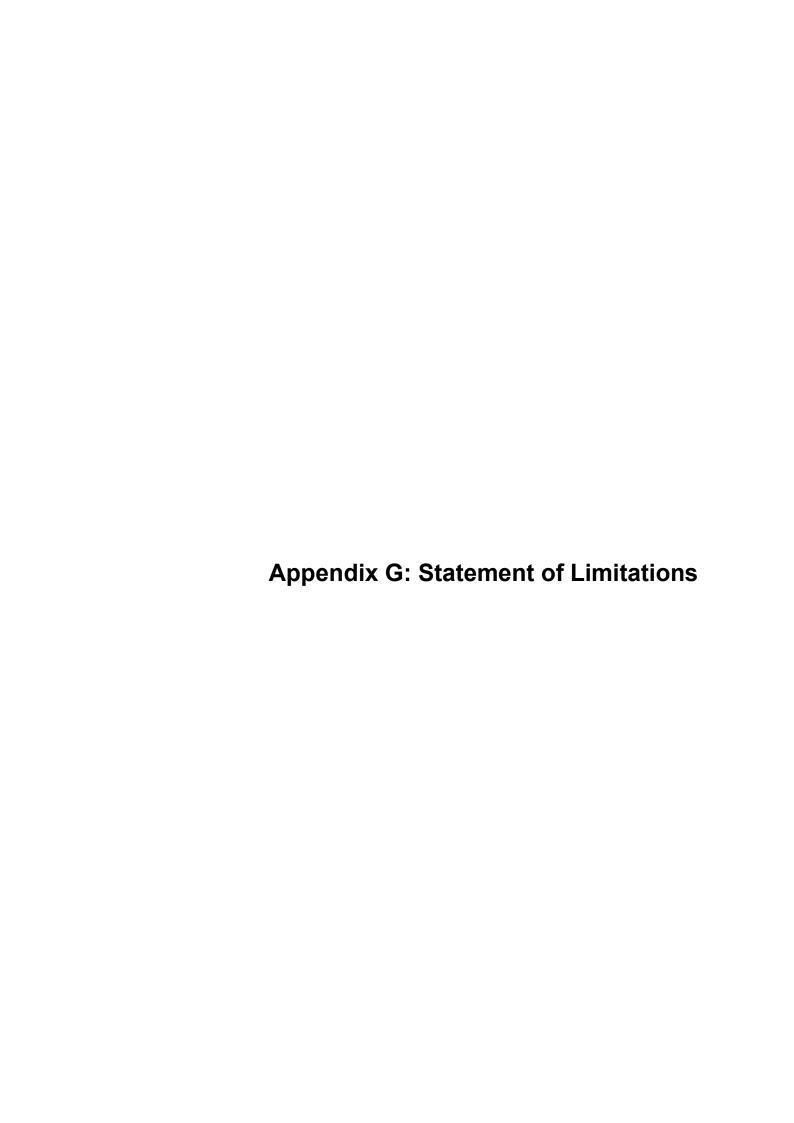
The assessment was conducted on the basis of the condition, type and location of the materials at the time of inspection. The scope of this investigation did not allow intrusive sampling techniques to be undertaken in all locations, and consequently the register may have limitations as a reference document for the purposes of renovation or demolition.

Only 'typical' suspected material occurrences are inspected and sampled. Sampling is undertaken on a representative basis, for example, the inspection of one fire door of the same type within the same area is undertaken (i.e. not every 'matching' fire door is examined), unless specifically instructed. Sample collection was performed in a non-destructive and non-invasive manner by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas contain asbestos materials may also be made and stated within the register.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with relevant Statutory Regulations, Codes of Practice and Tetra Tech's Work Instructions. Laboratories undertaking analysis are appropriately NATA certified for the analysis conducted. LCD thresholds are adopted from lead in soil thresholds found in the National Environment Protection Assessment of Site Contamination (ASC) Measure (1999) as amended in 2013 (NEPM).

The presence of asbestos in bulk samples is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques. Where asbestos was found to exist, a risk assessment was conducted on each item and a priority rating applied. This was conducted in accordance with the protocols described in **Appendix D: Risk Assessment**.

The asbestos and hazmat register is made up of relevant information gathered on site plus Tetra Tech's assessment of risk and assignment of action ratings. Reference to photographs, where available, is made in the register along with sample identification and analysis results, where applicable. Sample analysis results from previous assessments may be utilised and referenced in this register.



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Statement of Limitations

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

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

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client's instruction, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected.

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

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

The assessment brief is to identify every reasonably accessible hazmat. Reasonably accessible does not extend to searching for concealed hazmat beneath concrete encased structural beams or beneath concrete floors, behind another hazmat, or any other locations which, to access, would cause structural damage that could potentially destabilise the structure or the building. Given the way in which hazmat was used in the construction of buildings, some may only be detected during the course of subsequent demolition.

Any areas within the remit of the assessment but not described within the body of the report or in the hazmat register should be regarded by the client as un-assessed, and suspected as ACM potentially containing amphibole asbestos. A competent person should assess such areas before any work affecting them is carried out.

It must be assumed that materials visually assessed as presumed asbestos contain amphibole asbestos, unless sampled and analysed to prove otherwise. All areas where access was not possible must also be presumed to contain asbestos until proven otherwise.

Asbestos Containing Materials

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

Representative sampling is defined as one like sample per consistent material type, situation or item. In these instances, only one test sample will be collected for analytical confirmation and the results expressed as consistent and typical of the building. It is advisable to presume that materials similar to those positively identified as asbestos also contain asbestos until proved otherwise. It should not be presumed that materials similar in appearance to those tested and found not to contain asbestos also do not contain asbestos.

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

Notably, with some asbestos containing bulk material it can be very difficult, or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres

present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

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

Internal building materials should be assumed to contain asbestos until otherwise assessed.

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

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

The following limitations and restrictions to specific materials, installations and locations are commonly found during assessments of this nature, even if safe access can be provided through consultation with the client this inspection and report may not include the following areas:

- Risers / Ceiling, Floor or Wall Cavities, and Voids may be completely blocked or bricked in. Occasionally may only be detected if shown on building construction plans or during demolition
- Columns / Structural Elements these will not be penetrated if doing so will damage the stability
 of the building
- Roofs / External Areas these will not be checked if safe access cannot be achieved
- Confined Spaces these will not be checked if safe access cannot be achieved
- Restricted Access areas subject to restricted access will not be checked unless special arrangements have been made through the client within the remit of the assessment
- Live Plant or Electrical Installations live electrical installations including fuse boxes, electrical control cabinets, distribution panels etc. are not routinely checked for safety reasons. Electrical equipment will only be examined if it is locked off and an isolation certificate has been issued. Under exceptional circumstances, when arranged by the client, examination of non-isolated equipment may take place under the supervision of an electrician
- Live Refrigerators / Cold Rooms / Mechanical Equipment / Heater Units / Kilns may contain asbestos internally, which is not visible or accessible until the unit is isolated and dismantled

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

This report does not comment on, or present information regarding regulatory waste disposal practices and the associated waste disposal legislative requirements for hazardous materials. Prior to the disposal of any hazardous materials from site, clarification from the EPA should be sought by you, the client or the controller of the site (PCBU).

As part of the site inspection, materials may be suspected to be non-hazardous based on age and/or appearance. If any of these materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and sampling of this material, with analytical confirmation should be undertaken in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Materials including (but not limited to) e.g. fire retardants, vermiculite, sprayed coatings and insulations cannot be feasibly sampled in their entirety due to the heterogeneous nature of such materials. Sample results provided are only representative of the material sampled, and in that particular sample location. If any such materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and targeted area sampling, with analytical

confirmation should be undertake in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Should any other material suspected to contain asbestos or hazmat be found at the site, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.



NSW Health Infrastructure c/o Turner & Townsend Asbestos and Hazardous Materials Pre-Demolition Assessment

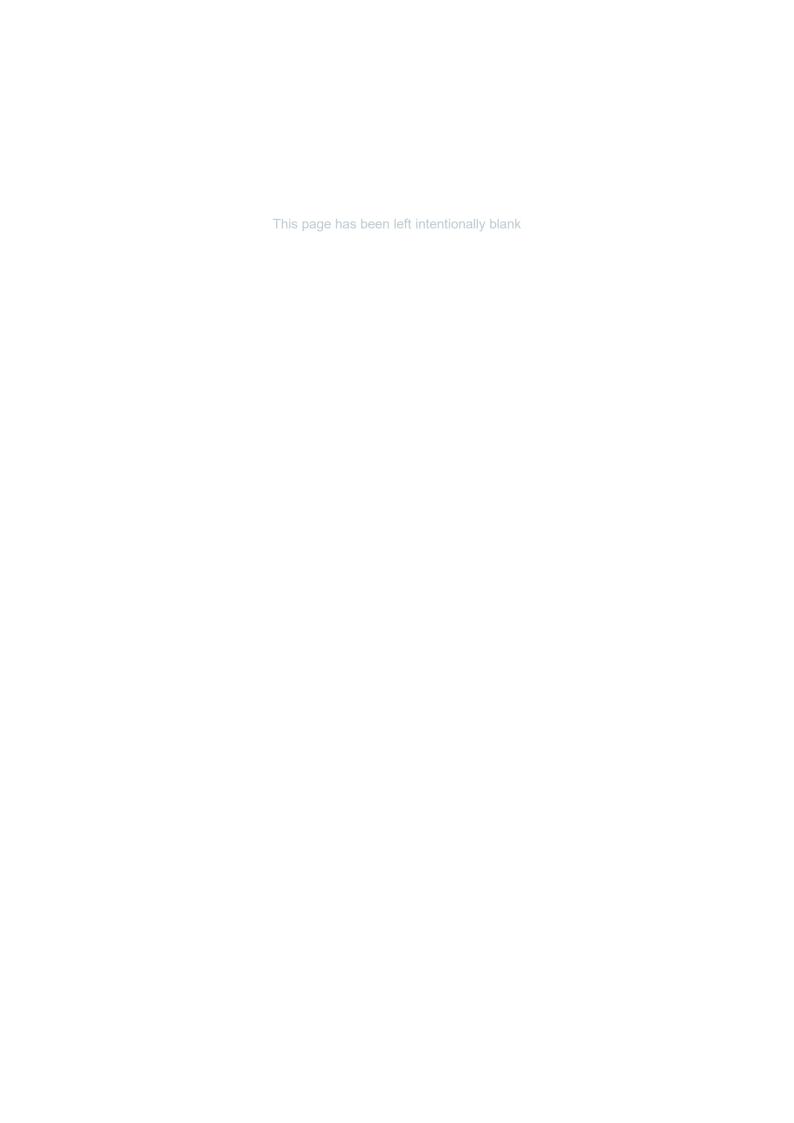
Workshops, Metal Shed and Old Mortuary

Cessnock Hospital - 24 View Street

Cessnock NSW 2325

23/08/2024





Asbestos and Hazardous Materials Pre-Demolition Assessment

Prepared for.

NSW Health Infrastructure c/o Turner & Townsend

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ABIN. 33 133 400 321

Report Date: 23/08/2024

754-NTLEN347071-1 - Workshops, Metal Shed and Old Mortuary - HMDR - 01072024

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Appendices

Appendix A: Asbestos and Hazardous Materials Register

Appendix B: Laboratory Analysis Certificate

Appendix C: Photographs

Appendix D: Risk Assessment

Appendix E: Legislative Requirements

Appendix F: Methodology

Appendix G: Statement of Limitations

Executive Summary

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Workshops, Metal Shed and Old Mortuary located at Cessnock Hospital - 24 View Street, Cessnock NSW 2325 (the site).

The purpose of the hazmat pre-demolition assessment was to identify and assess the health risk posed by hazmat, including asbestos containing materials (ACM) which may be encountered during future demolition/refurbishment works of the building. This is in order to meet the requirements of the relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes.

State/Territory legislation and industry guidance requires that information in this report is supplied on the understanding that the area surveyed is scheduled for demolition/refurbishment works, and that identified asbestos and other hazmat will be removed prior to, or as part of these works. Asbestos or other hazmat remaining in situ will need to be detailed in the asbestos and hazmat register and site-specific asbestos management plan designed to control the risks of exposure to hazardous materials.

The following hazardous building materials were identified at the time of the assessment:

| Property | Asbestos Containing Materials | | Lead Based Paint | Lead Containing Dust | Synthetic Mineral Fibre | Poly- chlorinated Biphenyls | Ozone Depleting Substances |
|---|-------------------------------------|---------|------------------------|----------------------------|-------------------------------|-----------------------------------|----------------------------------|
| | Non- Friable | Friable | | | | | |
| Workshops, Metal Shed and Old Mortuary | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Full details of the material assessments can be located within **Appendix A: Asbestos and Hazardous Materials Register**.

Areas of No Access or Limited Access were present and are described in Section 2.2. It should be presumed that hazmat are present in these areas until further inspection can confirm or refute their presence.

A number of other recommendations were made in the body of this report which address the ongoing management of hazardous building materials at this site.

This executive summary must be read in conjunction with this entire report and the limitations contained therein.

1. Introduction

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by NSW Health Infrastructure c/o Turner & Townsend to conduct an asbestos and hazardous materials (hazmat) pre-demolition assessment of the Workshops, Metal Shed and Old Mortuary located at Cessnock Hospital - 24 View Street, Cessnock NSW 2325 (the site). Ben McCann of Tetra Tech conducted the assessment on the 01/07/2024.

Note: The building was occupied at the time of the assessment. As such, destructive/intrusive sampling methods were not able to be used during the survey. A destructive hazardous materials survey must be carried out when the building has been vacated prior to any demolition or refurbishment works.

1.1. Site Information

The asbestos and hazardous materials pre-demolition assessment was undertaken of the Workshops, Metal Shed and Old Mortuary located at Cessnock Hospital - 24 View Street, Cessnock NSW 2325 (the site).

| Table 1: Site Information | | |
|---------------------------|---|--|
| Site: | Workshops, Metal Shed and Old Mortuary, Cessnock Hospital - 24 View Street, Cessnock NSW 2325 | |
| Age (Circa): | 1960s | |
| Site Description: | Single story workshop buildings | |

1.2. Objective and Scope of Works

The objectives/scope of the hazmat assessment was to:

- Identify the presence of the following confirmed and or suspected hazmat building materials within accessible areas of nominated building(s):
 - Asbestos Containing Materials (ACM);
 - Lead Based Paint (LBP);
 - Lead Containing Dust (LCD);
 - Synthetic Mineral Fibres (SMF);
 - Polychlorinated Biphenyls in fluorescent light capacitors (PCBs); and
 - Ozone Depleting Substances (ODSs).
- Collect samples of suspected ACM and/or LBP and LCD, for analysis by a NATA accredited laboratory;
- Visually determine the presence of SMF, PCB-containing light fittings and ODSs;
- Recommend risk management strategies to mitigate risks associated with ACM and other hazmat for removal and ongoing occupancy;
- Prepare a detailed assessment report in alignment with the requirements of relevant State/Territory Regulations, Compliance Codes, Codes of Practice and Guidance Notes, and
- Provide a copy of the assessment report in electronic (PDF) format to NSW Health Infrastructure.

2. Findings

The results of the asbestos and hazardous materials pre-demolition assessment are provided in a register format which is designed to provide readily available information about the presence of hazmat prior to demolition or refurbishment.

2.1. Assessment Findings

The findings of this assessment are presented in tabulated format, including building materials that have been photographed are depicted in **Appendix A: Asbestos and Hazardous Materials Register**.

The following significant key findings are noted:

2.1.1. Asbestos Containing Materials

| Location | Material Description | Risk Rating |
|--|--------------------------|-------------|
| Internal / GF / Workshops, Central Section / Ceiling Space | Dust | High |
| Internal / GF / Workshops, Southern Section / Unit 1008, Floor | Dust | High |
| External / GF / Workshops, All Areas / Central Section, Subfloor, Pipework | Lagging | Medium |
| External / GF / Workshops, All Areas / Central Section, Subfloor, Debris | Fibre Cement Debris | Low |
| External / GF / Workshops, All Areas / Central Section, Subfloor, Packing | Fibre Cement Sheeting | Low |
| External / GF / Workshops, All Areas / Central and North Sections, Eaves | Fibre Cement Sheeting | Low |
| External / GF / Workshops, All Areas / Central and North Sections, Roof Gable Panels | Fibre Cement Sheeting | Low |
| External / GF / Workshops, All Areas / Central and North Sections, Walls | Fibre Cement Sheeting | Low |
| External / GF / Workshops, All Areas / Central Section, Subfloor, Pipework | Moulded Fibre Cement | Low |
| External / GF / Workshops, All Areas / Central Section, Subfloor, South Wall | Profiled Cement Sheeting | Low |
| External / GF / Workshops, All Areas / North and South Sections, Upper Walls | Profiled Cement Sheeting | Low |
| Internal / GF / Northern Metal Shed / North, Distribution Board | Electrical Components | Low |
| Internal / GF / Old Mortuary / Various Throughout, Light Switches | Bakelite | Low |
| Internal / GF / Workshops, Central Section / Ceiling Space, Adjacent Access Hatch | Woven Blanket Material | Low |
| Internal / GF / Workshops, Central Section / Central Office, Northeast | Bituminous Backing Board | Low |

| Internal / GF / Workshops, Central Section / Kitchenette, Under Sink, Sink Pad (no access) | Bituminous Material | Low |
|---|-----------------------------|-----|
| Internal / GF / Workshops, Central Section / North Store Room, North and South, Walls | Fibre Cement Sheeting | Low |
| Internal / GF / Workshops, Northern Section / Electrical Distribution Board 19 - Incinerator | Compressed Bituminous Panel | Low |
| Internal / GF / Workshops, Northern Section / Room 1004, Sink Pad | Bituminous Material | Low |
| Internal / GF / Workshops, Northern Section / Wall Lining | Fibre Cement Sheeting | Low |
| Internal / GF / Workshops, Southern Section / Northern Unit, North, Wall | Fibre Cement Sheeting | Low |
| Internal / GF / Workshops, Southern Section / Unit 1008, North, Lower Infill Panels | Profiled Cement Sheeting | Low |
| Internal / GF / Workshops, Southern Section / Unit 1010, Stored Item, Underside of Sink | Bituminous Material | Low |

2.1.2. Lead Based Paint

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| Internal / GF / Old Mortuary / Central Door and Frame | Blue Paint | Low |
| Internal / GF / Old Mortuary / Debris on Floor | Cream Paint | Low |
| Internal / GF / Old Mortuary / Throughout, Ceiling | Blue Paint | Low |
| Internal / GF / Workshops, Southern Section / Unit 1011, Ceiling | White Paint | Low |
| Internal / GF / Workshops, Southern Section / Unit 1011, Debris on Surfaces | White Paint | Low |
| External / GF / Old Mortuary / Walls | White Paint | Low |
| External / GF / Workshops, All Areas / All Sections, Roof and Metal Work | Brown Paint | Low |
| Internal / GF / Workshops, Southern Section / Various Timber Walls | White Paint | Low |
| External / GF / Workshops, All Areas / Central and South Sections, Timber Walls | White Paint | Very Low |
| External / GF / Workshops, All Areas / Central Section, West, Window Frames | White Paint | Very Low |
| External / GF / Workshops, All Areas / North and Central Sections, Walls | White Paint | Very Low |

| External / GF / Workshops, All Areas / North Sections, Northeast, Door Frame | Cream Paint | Very Low |
|---|--------------------|----------|
| Internal / GF / Old Mortuary / Walls | Cream Paint | Very Low |
| Internal / GF / Workshops, Central Section / Wall & Ceiling Lining | Blue (Light) Paint | Very Low |

2.1.3. Lead Containing Dust

| Location | Material Description | Risk Rating |
|--|----------------------|-------------|
| Internal / GF / Workshops, Central Section / Throughout Ceiling Space | Dust | High |
| Internal / GF / Workshops, Southern Section / Floor | Dust | High |
| Internal / GF / Old Mortuary / Ceiling Space | Dust | Low |

2.1.4. Synthetic Mineral Fibres

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| Internal / GF / Workshops, Northern Section / Room 1004, Stored Item | Sarking Insulation | Low |
| Internal / GF / Workshops, Central Section / Ceiling Space | Insulation Batts | Very Low |

2.1.5. Polychlorinated Biphenyls

| Location | Material Description | Risk Rating |
|---|----------------------|-------------|
| Internal / GF / Northern Metal Shed / Throughout, Light Fittings | Capacitor(s) | Very Low |
| Internal / GF / Old Mortuary / South Room, Light Fittings | Capacitor(s) | Very Low |
| Internal / GF / Workshops, Northern Section / Double Tube Fluorescent Light Fitting | Capacitor(s) | Very Low |

2.1.6. Ozone Depleting Substances

| Location | Material Description | Risk Rating |
|--|------------------------------------|-------------|
| Internal / GF / Northern Metal Shed / North, AC Unit | Unknown Refrigerant | Very Low |
| Internal / GF / Workshops, Central Section / Central Office, AC Unit | R22 Hydrochlorofluorocarbon (HCFC) | Very Low |

2.2. Access Restrictions

Where no access or limited access areas have been identified it should be presumed that hazmat are present in these areas until further investigation can confirm or refute their presence.

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

2.2.1. No Access Areas

The following areas were not accessible at the time of the assessment:

- Within live electrics, plant and ductwork throughout.
- Areas outside the scope of assessment.
- Internal, GF, Workshops, Southern Section, Subfloor restricted access.

2.2.2. Limited Access Areas

Access to the following areas was limited at the time of the assessment:

- · Ceiling voids;
- Wall voids;
- Below floors;
- Behind ceramic wall tiles;
- · Beneath floor coverings;
- Subfloor spaces;
- Risers;
- Occupied areas;
- Formwork to concrete slabs; and
- Roof.

3. Recommendations

The following recommendations are provided with respect to hazmat identified during the assessment of the site. This assessment only covers the parts of the site that have been accessed and been assessed in accordance with the approved scope.

3.1. Asbestos Containing Materials

The preference will always be to eliminate the asbestos hazards from the site and if it is practicable for the occupier to do so then asbestos removal should always be considered. ACM on site, which were found to be in a bonded and stable condition, may be managed in situ and periodically inspected if removal is not practicable.

If managed in situ, all identified or presumed ACM should be appropriately labelled, where possible, and regularly inspected to assess their condition and potential changes to health risk.

Prior to any demolition, partial demolition, renovation or refurbishment, ACM likely to be disturbed by those works should be removed in accordance with relevant codes of practices, compliance codes and legislation.

3.1.1. Asbestos Control Measures

- If the ACM is friable, in a poor/unstable condition and accessible with risk to health from exposure, immediate access restrictions should be applied, and removal is required as soon as practicable using a licensed contractor.
- If the ACM is friable, accessible but in a stable condition, removal is preferred. However, if removal is not immediately practicable, short-term control measures (i.e. restrict access, sealing, enclosure etc) may be employed until removal can be facilitated.
- If the ACM is non-friable and, in a poor/unstable condition, disturbance should be minimised. Removal or encapsulation may be appropriate controls. ACM which are found in localised areas and identified as damaged, consisting of small qualities of non-friable cement debris may not require the highest removal priority. The removal priority may be lowered due to a low risk of disturbance. Further confirmation can be obtained via asbestos fibre air monitoring where the result is found to be < 0.01 fibre/mL.
- For the instances above and further assessment of the risk, airborne fibre monitoring is recommended and can assist with decisions on the most appropriate, and urgency of, control measures.
- Where ACM is in a good, stable condition, ongoing maintenance and periodic inspection would be appropriate control measures.
- Remaining ACM identified or presumed should be appropriately labelled where possible. Those items should be regularly inspected to ensure they are not deteriorating and resulting in a potential risk to health.
- An asbestos management plan (AMP) should be created and maintained for all ACM that remain
 at the site to assist the persons conducting a business or undertaking (PCBU) with the
 management of these materials. The AMP must ensure that suitable control measures are
 implemented to prevent site personnel and others from being exposed to airborne asbestos fibres.
- Schedule periodic reassessment of ACM remaining on-site to monitor their aging/deterioration so that the PCBU can be alerted if any ACM require encapsulation or removal.
- Prior to any demolition or refurbishment works, all asbestos and hazardous materials identified and likely to be disturbed by demolition or refurbishment works should be removed in accordance with the legislative requirements and relevant codes of practice or compliance codes.
- During future demolition works, if any materials that are not referenced in this report and are suspected of containing asbestos are encountered, then works must cease and an asbestos hygienist should be notified to determine whether the material contains asbestos.

The recommendations, conclusions or stability of asbestos materials contained in this report shall not abrogate a person of their responsibility to work in accordance with statutory requirements, codes of practice, guidelines, material safety data sheets, work instructions or reasonable work practices.

3.2. Lead Based Paint

- Any works that are likely to disturb lead based paint surface should be undertaken in accordance with the Australian Standard (AS4361.2:2017), Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings.
- Prior to any disturbance of lead based paint a comprehensive risk assessment is to be conducted.
- Any loose and peeling lead based paint should be stabilised (using hand-held scrapers, drop cloths and wet misting where appropriate) and the paint chips disposed of as hazardous waste.
- Any remediation works that may generate dust or fumes (i.e. sanding, burning) must be performed
 under controlled conditions by a suitably resourced and experienced hazardous material/waste
 abatement contractor (e.g. a Class A licensed asbestos removal contractor).

3.3. Lead Containing Dust

- Any work processes involving lead containing dust must be undertaken in a manner to ensure that
 no worker is exposed to lead at concentrations above the workplace exposure standard (WES) of
 0.05mg/m³ over an eight-hour day.
- Prior to any disturbance of lead containing dust a comprehensive risk assessment is to be conducted.
- Lead containing dust removal works should include the use of high efficiency particulate air (HEPA)
 filtered vacuum cleaners and wet wiping techniques by a licensed contractor under controlled leadcontaining dust conditions in conjunction with air monitoring and clearances by a competent
 hygienist.

3.4. Synthetic Mineral Fibres

 SMF materials that are likely to be disturbed during any proposed demolition/refurbishment works should be handled in accordance with The National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)].

3.5. Polychlorinated Biphenyls

- It may not be considered feasible to inspect every light fitting within a premise as information available in the public domain on the identification of PCB-containing capacitors is limited. However, all metal capacitors should be treated as containing PCB unless determined otherwise
- All capacitors containing or suspected as PCB or the fluorescent light fittings likely to be disturbed during future works should be removed prior to any future demolition, partial demolition, renovation or refurbishment in accordance with Department of Occupational Health, Safety and Welfare, Safe Handling of PCB in Fluorescent Light Capacitors – 1993 and with the Polychlorinated Biphenyls Management Plan, Revised Edition April 2003.

3.6. Ozone Depleting Substances

Removal of refrigerants should be undertaken prior to any future demolition, partial demolition, renovation or refurbishment, where ODS's are likely to be disturbed. A licensed contractor who will recycle and reuse the refrigerant should decommission CFC and HCFC based equipment that is being disposed of in accordance with Association of Fluorocarbon Consumers and Manufacturers, The Australian Refrigeration and Air Conditioning Code of Good Practice – 1992 and the Australian Commonwealth Government Ozone Protection Act – 1989.

3.7. Training

Information, instruction and training must be provided to workers, contractors and others who may come into contact with hazardous materials in a workplace, either directly or indirectly.

Depending on the circumstances this hazardous materials awareness training may include:

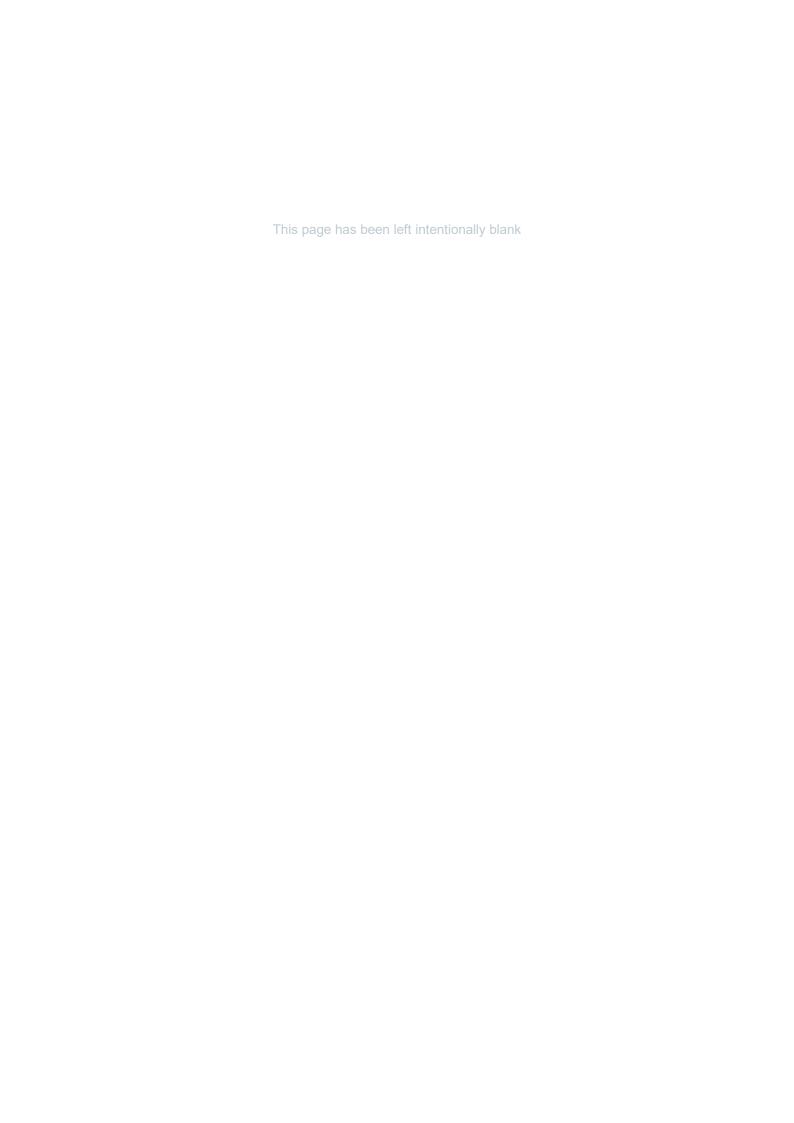
- The purpose of the training;
- The health risks of hazardous materials;
- The types, uses and likely occurrence of hazardous materials on site, in plant and/or equipment in the workplace;
- The trainee's roles and responsibilities for hazmat management;
- Where the asbestos and hazardous materials register is located and how it can be accessed;
- The timetable for removal of hazmat from the workplace;

- The processes and procedures to be followed to prevent exposure, including exposure from any accidental release of hazmat into the workplace;
- Where applicable, the correct use of maintenance and control measures, protective equipment and work methods to minimise the risks from hazmat, limit the exposure of workers and limit the spread of hazmat outside any work area;
- The National Exposure Standard (NES) and control levels for hazmat; and
- The purpose of any air monitoring or health surveillance that may occur.

Should any further suspect asbestos and/or hazmat become evident during future disturbance/ refurbishment works which have not been addressed in this report, Tetra Tech should be contacted immediately so that a WHS consultant can confirm the status of the suspect material/s.

Tetra Tech is able to assist with all aspects of Risk Management for removal of asbestos and other hazardous materials resulting from these findings

Appendix A: Asbestos and Hazardous Materials Register



| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|------------------------------|----------|---------------|---|-------------|----------|-----------|----------------|--|---|---------|
| External | GF / Northern Metal Shed / East, to Floor | Construction Joint Mastic | Asbestos | A27835 | No Asbestos Detected | - | 6 m | - | - | - | - | 1 |
| External | GF / Old Mortuary / South and East Windows | Window Caulking | Asbestos | A30964 | No Asbestos Detected | - | 3 Units | - | - | - | - | 2 |
| External | GF / Workshops, All Areas / Central and North Sections, Eaves | Fibre Cement Sheeting | Asbestos | A30957.1 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 100 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 3 |
| External | GF / Workshops, All Areas / Central and North Sections, Roof Gable Panels | Fibre Cement Sheeting | Asbestos | A30957.2 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 30 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 4 |
| External | GF / Workshops, All Areas / Central and North Sections, Walls | Fibre Cement Sheeting | Asbestos | A30957 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 300 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 5 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--------------------------|----------|---------------|---|-------------|----------|-----------|----------------|--------------------------------------|---|---------|
| External | GF / Workshops, All Areas / Central Section, Subfloor, Debris | Fibre Cement Debris | Asbestos | A30957.3 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 5 m² | Poor | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 6 |
| External | GF / Workshops, All Areas / Central Section, Subfloor, Packing | Fibre Cement Sheeting | Asbestos | A30959 | Chrysotile Asbestos Detected | Non-Friable | 5 m² | Poor | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 7 |
| External | GF / Workshops, All Areas / Central Section, Subfloor, Pipework | Lagging | Asbestos | A30954 | Amosite Asbestos Detected | Friable | 10 m | Poor | Medium | As soon as reasonably practicable | Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. Restrict access in the interim. | 8 |
| External | GF / Workshops, All Areas / Central Section, Subfloor, Pipework | Moulded Fibre Cement | Asbestos | A30956 | Chrysotile and Amosite Asbestos Detected | Non-Friable | 5 m | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 9 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-----------------------------|----------|--------------------------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| External | GF / Workshops, All Areas / Central Section, Subfloor, South Wall | Profiled Cement Sheeting | Asbestos | A30958.1 | Chrysotile Asbestos Detected | Non-Friable | 6 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 10 |
| External | GF / Workshops, All Areas / Central Section, West Windows | Thin Window Caulking | Asbestos | A30960 | No Asbestos Detected | - | 2 Units | - | - | - | - | 11 |
| External | GF / Workshops, All Areas / Central Section, West Windows | Thick Window Caulking | Asbestos | A30961 | No Asbestos Detected | - | 4 Units | - | - | - | - | 12 |
| External | GF / Workshops, All Areas / North and South Sections, Upper Walls | Profiled Cement Sheeting | Asbestos | A30958 | Chrysotile Asbestos Detected | Non-Friable | 50 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 13 |
| Internal | GF / Northern Metal Shed / North, Distribution Board | Electrical Components | Asbestos | 754- NTLEN347071- 1339A2 | Suspected Asbestos | Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Confirm Status and remove under controlled friable asbestos removal conditions as soon as practicable by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 14 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|---------------------------|----------|--------------------------------|------------------------------------|-------------|----------|-----------|----------------|--------------------------------------|---|---------|
| Internal | GF / Old Mortuary / North Room, to Redundant Sink | Bituminous Material | Asbestos | A30966 | No Asbestos Detected | - | 2 m² | - | - | - | - | 15 |
| Internal | GF / Old Mortuary / South Room, on Floor | Fibre Cement Sheeting | Asbestos | A30963 | No Asbestos Detected | - | 0.5 m² | - | - | - | - | 16 |
| Internal | GF / Old Mortuary / Various Throughout, Light Switches | Bakelite | Asbestos | 754- NTLEN347071- 1339A3 | Suspected Asbestos | Non-Friable | 6 Units | Stable | Low | Prior to refurbishment or demolition | Confirm status and remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 17 |
| Internal | GF / Workshops, Central Section / Ceiling Space | Dust | Asbestos | A27831 | Chrysotile Asbestos Detected | Friable | 120 m² | Poor | High | As soon as reasonably practicable | Restrict access and isolate area. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 18 |
| Internal | GF / Workshops, Central Section / Ceiling Space, Adjacent Access Hatch | Woven Blanket Material | Asbestos | A27830 | Chrysotile Asbestos Detected | Friable | 5 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 19 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--------------------------------|----------|--------------------------------|---|-------------|----------|-----------|----------------|--|--|---------|
| Internal | GF / Workshops, Central Section / Central Office, Northeast | Bituminous Backing Board | Asbestos | 754- NTLEN347071- 1339A1 | Suspected Asbestos | Non-Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Confirm status and remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 20 |
| Internal | GF / Workshops, Central Section / Kitchenette, Under Sink, Sink Pad (no access) | | Asbestos | A27829.1 | Chrysotile Asbestos Detected | Non-Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 21 |
| Internal | GF / Workshops, Central Section / North Store Room, North and South, Walls | Fibre Cement Sheeting | Asbestos | A30957.5 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 40 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 22 |
| Internal | GF / Workshops, Northern Section / Electrical Distribution Board 19 - Incinerator | Compressed Bituminous Panel | Asbestos | 754- NTLEN347071- 1493A1 | Suspected Asbestos | Non-Friable | 1 Unit | Stable | Low | Prior to refurbishment or demolition | Not sampled - live electrical hazard. Confirm status and remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 23 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|--------------------------|----------|---------------|---|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Workshops, Northern Section / Room 1004, Sink Pad | Bituminous Material | Asbestos | A27829 | Chrysotile Asbestos Detected | Non-Friable | 1 m² | Stable | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 24 |
| Internal | GF / Workshops, Northern Section / Wall Lining | Fibre Cement Sheeting | Asbestos | A30957.4 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 120 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 25 |
| Internal | GF / Workshops, Southern Section / Northern Unit, North, Wall | Fibre Cement Sheeting | Asbestos | A30957.6 | Chrysotile, Amosite and Crocidolite Asbestos Detected | Non-Friable | 20 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 26 |
| Internal | GF / Workshops, Southern Section / Unit 1008, Floor | Dust | Asbestos | A27832 | Chrysotile Asbestos Detected | Friable | 20 m² | Poor | High | As soon as reasonably practicable | Restrict access and isolate area. Remove under controlled friable asbestos removal conditions prior to refurbishment or demolition works by a Class A (friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 27 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------------|----------|---------------|------------------------------------|-------------|----------|-----------|----------------|--|---|---------|
| Internal | GF / Workshops, Southern Section / Unit 1008, North, Lower Infill Panels | Profiled Cement Sheeting | Asbestos | A30958.2 | Chrysotile Asbestos Detected | Non-Friable | 5 m² | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 28 |
| Internal | GF / Workshops, Southern Section / Unit 1008, Northeast, Stored Sheets | Compressed Cement Sheeting | Asbestos | A27833 | No Asbestos Detected | - | 3 m² | - | - | - | - | 29 |
| Internal | GF / Workshops, Southern Section / Unit 1008, Stored Item on Floor | Fibre Cement Sheet | Asbestos | A27834 | No Asbestos Detected | - | 8 m² | - | - | - | - | 30 |
| Internal | GF / Workshops, Southern Section / Unit 1009, Stored Item on Floor | Fibre Cement Sheeting | Asbestos | A27998 | No Asbestos Detected | - | 4 m² | - | - | - | - | 31 |
| Internal | GF / Workshops, Southern Section / Unit 1010, Stored Item, Underside of Sink | Bituminous Material | Asbestos | A27995 | Chrysotile Asbestos Detected | Non-Friable | 1 Unit | Fair | Low | Prior to refurbishment or demolition | Remove under controlled non-friable asbestos removal conditions prior to refurbishment or demolition works by a Class B (non-friable) licensed asbestos removal contractor in accordance with relevant State Regulations, Compliance Codes, Codes of Practice and Guidance Notes. | 32 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|------------|---------------|----------------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| External | GF / Old Mortuary / Entrance Door | Brown Paint | Lead Paint | L22364 | Lead Detected (0.096% w/w) | - | 4 m² | - | - | - | <0.1% lead content, not lead-containing paint as described in AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. | 33 |
| External | GF / Old Mortuary / Walls | White Paint | Lead Paint | L22361 | Lead Detected (0.30% w/w) | - | 100 m² | Poor | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 34 |
| External | GF / Workshops, All Areas / All Sections, Roof and Metal Work | Brown Paint | Lead Paint | L22317 | Lead Detected (0.26% w/w) | - | 800 m² | Poor | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 35 |
| External | GF / Workshops, All Areas / Central and South Sections, Timber Walls | White Paint | Lead Paint | L22318 | Lead Detected (0.18% w/w) | - | 400 m² | Fair | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 36 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|------------|---------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| External | GF / Workshops, All Areas / Central Section, West, Window Frames | White Paint | Lead Paint | L22312 | Lead Detected (0.24% w/w) | - | 6 Units | Fair | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 37 |
| External | GF / Workshops, All Areas / North and Central Sections, Walls | White Paint | Lead Paint | L22315 | Lead Detected (0.18% w/w) | - | 300 m² | Fair | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 38 |
| External | GF / Workshops, All Areas / North Sections, Northeast, Door Frame | Cream Paint | Lead Paint | L22314 | Lead Detected (0.12% w/w) | - | 1 m² | Fair | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 39 |

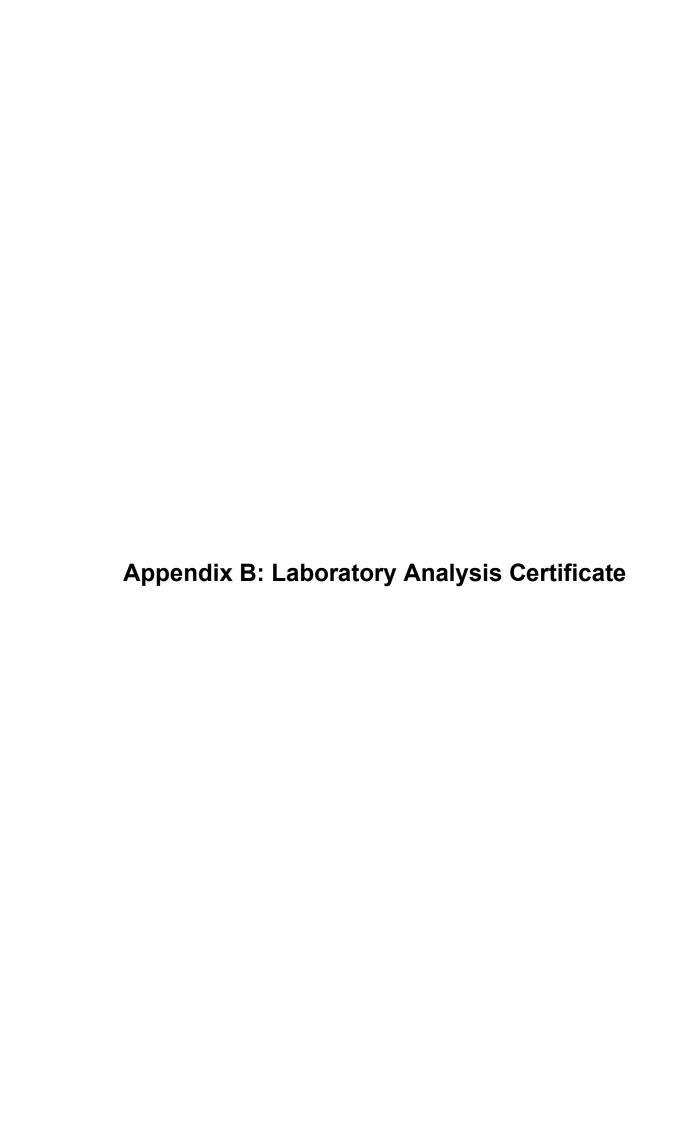
| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|------------|---------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|---------|
| Internal | GF / Old Mortuary / Central Door and Frame | Blue Paint | Lead Paint | L22370 | Lead Detected (12% w/w) | - | 4 m² | Fair | Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 40 |
| Internal | GF / Old Mortuary / Debris on Floor | Cream Paint | Lead Paint | L22367.1 | Lead Detected (0.86% w/w) | - | 50 m² | Poor | Low | - | >0.1% lead content. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | - 41 |
| Internal | GF / Old Mortuary / Throughout, Ceiling | Blue Paint | Lead Paint | L22370.1 | Lead Detected (12% w/w) | - | 50 m² | Poor | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 42 |
| Internal | GF / Old Mortuary / Walls | Cream Paint | Lead Paint | L22367 | Lead Detected (0.86% w/w) | - | 100 m² | Poor | Very Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct | |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|-------------------------|------------|---------------|---------------------------------|---------|----------|-----------|----------------|-------------------|---|-------------|
| | | | | | | | | | | | a risk assessment to determine the level of remediation controls required. | |
| Internal | GF / Workshops, Central Section / Wall & Ceiling Lining | Blue (Light) Paint | Lead Paint | L22308 | Lead Detected (0.25% w/w) | - | 80 m² | Stable | Very Low | - | >0.1% lead content, maintain in current condition, over paint with a lead-free paint as part of ongoing maintenance. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings prior to renovation or demolition works. Conduct a risk assessment to determine the level of remediation controls required. | , 44 |
| Internal | GF / Workshops, Southern Section / Unit 1011, Ceiling | White Paint | Lead Paint | L22311 | Lead Detected (3.1% w/w) | - | 20 m² | Poor | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 45 |
| Internal | GF / Workshops, Southern Section / Unit 1011, Debris on Surfaces | White Paint | Lead Paint | L22311.1 | Lead Detected (3.1% w/w) | - | 5 m² | Poor | Low | - | >0.1% lead content. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | - 46 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|---|-------------------------|------------|---------------|-----------------------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| Internal | GF / Workshops, Southern Section / Various Timber Walls | White Paint | Lead Paint | L22318.1 | Lead Detected (0.18% w/w) | - | 50 m² | Poor | Low | - | >0.1% lead content, remove flaking sections and over paint with a lead-free paint. Remove under controlled conditions in accordance with AS 4361.2, Guide to hazardous paint management - 2017 Part 2: Lead paint in residential, public and commercial buildings. Conduct a risk assessment to determine the level of remediation controls required. | 47 t |
| Internal | GF / Old Mortuary / Ceiling Space | Dust | Lead Dust | L22376 | Lead Detected (290 mg/kg) | - | 50 m² | Poor | Low | - | <1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Manage in-situ, conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 48 |
| Internal | GF / Workshops, Central Section / Throughout Ceiling Space | Dust | Lead Dust | L22309 | Lead Detected (5,400 mg/kg) | - | 100 m² | Poor | High | - | >1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Implement intermediate control measures. Conduct a risk assessment to determine the level of remediation controls required prior to any activities including refurbishment or demolition that may disturb the dust. | 49 |
| Internal | GF / Workshops, Southern Section / Floor | Dust | Lead Dust | L22358 | Lead Detected (1,500 mg/kg) | - | 100 m² | Poor | High | - | >1,500 mg/kg for industrial or commercial sites based on the soil contamination criteria of the National Environment Protection Measure 1999. Implement intermediate control measures. Conduct a risk assessment to determine the level of remediation controls | 50 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | t Recommendations | |
|----------|--|-------------------------|--------|--------------------------------|------------------|---------|----------|-----------|----------------|-------------------|---|----|
| | | | | | | | | | | | required prior to any activities including refurbishment or demolition that may disturb the dust. | |
| Internal | GF / Workshops, Central Section / Ceiling Space | Insulation Batts | SMF | 754- NTLEN347071- 1339S1 | Suspected SMF | - | 100 m² | - | Very Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 51 |
| Internal | GF / Workshops, Northern Section / Room 1004, Stored Item | Sarking Insulation | SMF | 754- NTLEN347071- 1493S1 | Suspected SMF | - | 40 m² | - | Low | - | Remove under controlled SMF conditions as per the Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC: 2006 (1990)]. | 52 |
| Internal | GF / Northern Metal Shed / Throughout, Light Fittings | Capacitor(s) | PCB | 754- NTLEN347071- 1339P1 | Suspected PCB | - | 6 Units | - | Very Low | - | PCB-containing capacitors are suspected due to age & appearance of electrical fittings. Remove and dispose of in accordance with the Polychlorinated Biphenyls Management Plan, Revised Edition April 2003. | 53 |
| Internal | GF / Old Mortuary / South Room, Light Fittings | Capacitor(s) | PCB | 754- NTLEN347071- 1339P2 | Suspected PCB | - | 2 Units | - | Very Low | - | PCB-containing capacitors are suspected due to age & appearance of electrical fittings. Remove and dispose of in accordance with the Polychlorinated Biphenyls Management Plan, Revised Edition April 2003. | 54 |
| Internal | GF / Workshops, Northern Section / Double Tube Fluorescent Light Fitting | Capacitor(s) | PCB | 754- NTLEN347071- 1493P1 | Suspected PCB | - | 2 Units | - | Very Low | - | PCB-containing capacitors are visually confirmed with ANZECC database 1997. Remove and dispose of in accordance with the | 55 |

| Area | Location | Material Description | Hazard | Reference No. | Result | Friable | Quantity | Condition | Risk Rating | Reinspect Date | Recommendations | Line ID |
|----------|--|---|-----------|---|--------------------|---------|----------|-----------|----------------|-------------------|--|---------|
| | | | | | | | | | | | Polychlorinated Biphenyls Management Plan, Revised Edition April 2003 prior to refurbishment or demolition. | |
| Internal | GF / Northern Metal Shed / North, AC Unit | Unknown Refrigerant | ODS | 754- NTLEN347071- 1339O2 | Suspected ODS | - | 1 Unit | - | Very Low | - | No data was visible at the time of the assessment. Confirm status of suspected ozone depleting substances identified in the assessment. | 56 |
| Internal | GF / Workshops, Central Section / Central Office, AC Unit | R22 Hydrochlorofluoroca rbon (HCFC) | ODS | 754- NTLEN347071- 1339O1 | ODS Refrigerant | - | 1 Unit | - | Very Low | - | Hydrochlorofluorocarbon (HCFC), ozone depleting substances identified in the assessment that require removal during refurbishment or demolition works should be appropriately decanted and disposed of by a licensed contractor in accordance with the Ozone Protection and Synthetic Greenhouse Gas Management Amendment Regulation 2012. | 57 |
| Internal | GF / Workshops / Southern Section / Subfloor | - | No Access | 754- NTLEN347071- 1WorkshopsNA 1 | - | - | - | - | - | - | Restricted access. Potential hazardous materials may be present within inaccessible areas. | 58 |







Bulk Identification Report

Job No: 754-NTLEN347071-1 Bulk ID Report Cessnock Hospital - Workshops 05072024

Client: NSW Health Infrastructure

Client Address: 1 Reserve Rd, St Leonards NSW 2065

Contact: Les Palma

E-mail: Les.Palma@turntown.com

 Date Sampled:
 01-07-2024

 Date Analysed:
 04-07-2024

Date Authorised: 08-07-2024
Sampled By: Ben McCann

Site: Cessnock Hospital - Workshops, Metal Shed and Old Mortuary:

Cessnock Hospital, 24 View St, Cessnock, NSW

Please note: Where you have provided the samples for analysis, Tetra Tech Coffey Pty Ltd does not take any responsibility for the quality of such samples. This report relates exclusively to the samples analysed by Tetra Tech Coffey Pty Ltd and as such only the samples submitted or collected for analysis have been considered in presenting these results. The data and results contained in this report are not representative of the site, product or source material as a whole. Tetra Tech Coffey Pty Ltd does not make any warranty or representation in relation to the site, product or source material as a whole. If you suspect any material to contain asbestos, then you must immediately stop the works and activities at the site or in respect of the materials and engage Tetra Tech Coffey Pty Ltd or another suitably trained asbestos

Accredited for compliance with ISO/IEC 17025 - Testing Accreditation No:2220

Corporate Site No:16909

hygienist to sample, assess or re-assess (as the case may be) the material suspected to contain asbestos.

Asbestos in Bulk Samples and Non-homogenous Material

Test Method: Tetra Tech Coffey Pty Ltd analyses bulk samples for asbestos using polarising light microscopy and dispersion staining techniques in

accordance with Coffey SOP WILAB1, and Australian Standard (AS) 4964 – 2004, Method for the qualitative identification of asbestos in bulk samples (AS 4964). The detection limit for the test method as per AS 4964 is 0.1 g/kg. For non-homogenous samples a semi-quantitative aspect is adopted for the test method and is taken into account when reporting the results. As per Tetra Tech Coffey Pty Ltd's NATA

approved SOP WILAB1 sample retention periods are set at 1 month for all samples from the date of analysis.

Analysed At: Tetra Tech Coffey Pty Ltd Laboratory, Level 20, Tower B, Citadel Towers 799 Pacific Highway Chatswood NSW 2067

Total Samples: 19

Approved Identifier
Panika Wongchanda

Approved Signatory
Matthew Tang

| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|--|-----------------|--|
| A27829 | Internal, GF, Workshops, Northern Section, Room 1004 - Sink Pad, Bituminous Material - Black bituminous material | 24 x 15 x 3 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A27830 | Internal, GF, Workshops, Central Section, Workshop, Ceiling Space, Adjacent Access Hatch, Woven Material - Beige fibrous woven rope material | 55 x 25 x 2 mm | Chrysotile (white asbestos) detected |
| A27831 | Internal, GF, Workshops, Central Section, Ceiling Space, Throughout, Dust - Brown non-homogenous fibrous dust & debris Matted fibre bundles containing Chrysotile (white asbestos) found within the sample raw weight: ~ 0.0002 g | 1.6 g | Chrysotile (white asbestos) detected Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A27832 | Internal, GF, Workshops, Southern Section, Unit 1008, On Floor, Dust - Brown non-homogenous fibrous dust & debris Isolate fibre bundle containing Chrysotile (white asbestos) found within the sample measuring: ~ 2 x 0.5 x 0.5 mm | 9.1 g | Chrysotile (white asbestos) detected Organic fibres detected Synthetic mineral fibres detected No trace (respirable) asbestos detected as per AS 4964 2004 |
| A27833 | Internal, GF, Workshops, Southern Section, Unit 1008, Northeast, Stored Sheets, Compressed Cement Sheeting - Beige layered fibre cement sheet material | 42 x 8 x 2 mm | No asbestos fibres detected Organic fibres detected |
| A27834 | Internal, GF, Workshops, Southern Section, Unit 1008, stored item on floor, Fibre Cement Sheet - Beige layered fibre cement sheet material | | No asbestos fibres detected Organic fibres detected |
| A27835 | External, GF, Northern Metal Shed, East, To Floor, Construction Joint Mastic - Grey rubbery mastic material | | No asbestos fibres detected Organic fibres detected |
| A27995 | Internal, GF, Workshops, Southern Section, Unit 1010, Stored item, sink pad - Underside of sink, Bituminous Material - Black fibrous bituminous sheet material | | Chrysotile (white asbestos) detected Organic fibres detected |

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| Sample No. | Location & Description | Sample Size (~) | Results |
|------------|--|-----------------|---|
| A27998 | Internal, GF, Workshops, Southern Section, Unit 1009, Stored item on floor, Fibre Cement Sheeting - Beige layered fibre cement sheet material | 37 x 9 x 3 mm | No asbestos fibres detected Organic fibres detected |
| A30954 | External, GF, Workshops, All Areas, Central Section, Subfloor, Pipework, Lagging - White fibrous insulation material | 63 x 22 x 2 mm | Amosite (brown asbestos) detected |
| A30956 | External, GF, Workshops, All Areas, Central Section, Subfloor, Pipework, Moulded Fibre Cement - Grey compressed fibre cement sheet material | 22 x 9 x 2 mm | Chrysotile (white asbestos) detected Amosite (brown asbestos) detected Organic fibres detected |
| A30957 | External, GF, Workshops, All Areas, Central and North Sections, Walls, Fibre Cement Sheeting - Grey compressed fibre cement sheet material | 35 x 20 x 5 mm | Chrysotile (white asbestos) detected Amosite (brown asbestos) detected Crocidolite (blue asbestos) detected |
| A30958 | External, GF, Workshops, All Areas, North and South Sections, Upper Walls, Profiled Cement Sheeting - Grey compressed fibre cement sheet material | 36 x 12 x 5 mm | Chrysotile (white asbestos) detected |
| A30959 | External, GF, Workshops, All Areas, Central Section, Subfloor, Packing, Fibre Cement Sheeting - Grey painted beige layered fibre cement sheet material | 28 x 13 x 5 mm | Chrysotile (white asbestos) detected Organic fibres detected |
| A30960 | External, GF, Workshops, All Areas, Central Section, West, Thin Caulking, Window Caulking - Grey painted beige hardened mastic material | 52 x 11 x 8 mm | No asbestos fibres detected Organic fibres detected |
| A30961 | External, GF, Workshops, All Areas, Central Section, West, Thick Caulking, Window Caulking - Blue painted beige hardened mastic material | 66 x 25 x 10 mm | No asbestos fibres detected Organic fibres detected |
| A30963 | Internal, GF, Old Mortuary, South Room, On Floor, Fibre Cement Sheeting - Brown layered fibre cement sheet material | 44 x 22 x 5 mm | No asbestos fibres detected Organic fibres detected |
| A30964 | External, GF, Old Mortuary, South and East Windows, Window Caulking - Beige hardened mastic material | 27 x 21 x 4 mm | No asbestos fibres detected Organic fibres detected |
| A30966 | Internal, GF, Old Mortuary, North Room, To Redundant Sink, Bituminous Material - Brown soft mastic material | 28 x 23 x 3 mm | No asbestos fibres detected Organic fibres detected |

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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 355699

| Client Details | |
|----------------|---|
| Client | Tetra Tech Coffey Pty Ltd |
| Attention | Ben McCann |
| Address | Level 20, Tower B, Citadel Tower, 799 Pacific Hwy, Chatswood, NSW, 2067 |

| Sample Details | |
|--------------------------------------|--|
| Your Reference | 754-NTLEN347071-1, Cessnock Hospital Survey-Wkshop |
| Number of Samples | 11 Paint, 3 Dust |
| Date samples received | 04/07/2024 |
| Date completed instructions received | 04/07/2024 |

Analysis Details

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

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

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

| Report Details | | | | |
|--|------------|--|--|--|
| Date results requested by | 11/07/2024 | | | |
| Date of Issue | 11/07/2024 | | | |
| NATA Accreditation Number 2901. This document shall not be reproduced except in full. | | | | |
| Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with * | | | | |

Results Approved By

Giovanni Agosti, Group Technical Manager

Authorised By

Nancy Zhang, Laboratory Manager



| Lead in Paint | | | | | | |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference | | 355699-1 | 355699-3 | 355699-4 | 355699-5 | 355699-6 |
| Your Reference | UNITS | L22308 | L22311 | L22312 | L22314 | L22315 |
| Date Sampled | | 01/07/2024 | 01/07/2024 | 01/07/2024 | 01/07/2024 | 01/07/2024 |
| Type of sample | | Paint | Paint | Paint | Paint | Paint |
| Date prepared | - | 09/07/2024 | 09/07/2024 | 09/07/2024 | 09/07/2024 | 09/07/2024 |
| Date analysed | - | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 |
| Lead in paint | %w/w | 0.25 | 3.1 | 0.24 | 0.12 | 0.18 |

| Lead in Paint | | | | | | |
|----------------|-------|------------|------------|------------|------------|------------|
| Our Reference | | 355699-7 | 355699-8 | 355699-10 | 355699-11 | 355699-12 |
| Your Reference | UNITS | L22317 | L22318 | L22361 | L22364 | L22367 |
| Date Sampled | | 01/07/2024 | 01/07/2024 | 01/07/2024 | 01/07/2024 | 01/07/2024 |
| Type of sample | | Paint | Paint | Paint | Paint | Paint |
| Date prepared | - | 09/07/2024 | 09/07/2024 | 09/07/2024 | 09/07/2024 | 09/07/2024 |
| Date analysed | - | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 |
| Lead in paint | %w/w | 0.26 | 0.18 | 0.30 | 0.096 | 0.86 |

| Lead in Paint | | |
|----------------|-------|------------|
| Our Reference | | 355699-13 |
| Your Reference | UNITS | L22370 |
| Date Sampled | | 01/07/2024 |
| Type of sample | | Paint |
| Date prepared | - | 09/07/2024 |
| Date analysed | - | 10/07/2024 |
| Lead in paint | %w/w | 12 |

| Lead (dust) | | | | |
|----------------|-------|------------|------------|------------|
| Our Reference | | 355699-2 | 355699-9 | 355699-14 |
| Your Reference | UNITS | L22309 | L22358 | L22376 |
| Date Sampled | | 01/07/2024 | 01/07/2024 | 01/07/2024 |
| Type of sample | | Dust | Dust | Dust |
| Date prepared | - | 09/07/2024 | 09/07/2024 | 09/07/2024 |
| Date analysed | - | 09/07/2024 | 09/07/2024 | 09/07/2024 |
| Lead | mg/kg | 5,400 | 1,500 | 290 |

| Method ID | Methodology Summary |
|--------------------|--|
| Metals-020 | Determination of various metals by ICP-AES. |
| Metals-020/021/022 | Digestion of Paint chips/scrapings/liquids for Metals determination by ICP-AES/MS and or CV/AAS. |

Envirolab Reference: 355699 Page | 4 of 8

Revision No: R00

| QUALITY CONTROL: Lead in Paint | | | | | | Du | Spike Recovery % | | | |
|--------------------------------|-------|-------|--------------------|------------|---|------------|------------------|-----|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-2 | [NT] |
| Date prepared | - | | | 09/07/2024 | 3 | 09/07/2024 | 09/07/2024 | | 09/07/2024 | |
| Date analysed | - | | | 10/07/2024 | 3 | 10/07/2024 | 10/07/2024 | | 10/07/2024 | |
| Lead in paint | %w/w | 0.005 | Metals-020/021/022 | <0.005 | 3 | 3.1 | 2.7 | 14 | 88 | |

| QUALITY CONTROL: Lead in Paint | | | | | | Du | Spike Recovery % | | | |
|--------------------------------|-------|-------|--------------------|-------|---|------------|------------------|-----|------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | [NT] | [NT] |
| Date prepared | - | | | | 4 | 09/07/2024 | 09/07/2024 | | [NT] | [NT] |
| Date analysed | - | | | | 4 | 10/07/2024 | 10/07/2024 | | [NT] | [NT] |
| Lead in paint | %w/w | 0.005 | Metals-020/021/022 | | 4 | 0.24 | 0.23 | 4 | [NT] | [NT] |
| | | | | | | | | | | |

| QUALI | Duplicate | | | | Spike Recovery % | | | | | |
|------------------|-----------|-----|------------|------------|------------------|------------|------------|-----|------------|------|
| Test Description | Units | PQL | Method | Blank | # | Base | Dup. | RPD | LCS-1 | [NT] |
| Date prepared | - | | | 09/07/2024 | 9 | 09/07/2024 | 09/07/2024 | | 09/07/2024 | |
| Date analysed | - | | | 09/07/2024 | 9 | 09/07/2024 | 09/07/2024 | | 09/07/2024 | |
| Lead | mg/kg | 1 | Metals-020 | <1 | 9 | 1500 | 1100 | 31 | 105 | |

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| Result Definiti | ons |
|-----------------|---|
| 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 |

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| Quality Control | ol Definitions |
|------------------------------------|--|
| Blank | This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples. |
| Duplicate | This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable. |
| Matrix Spike | A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist. |
| LCS (Laboratory Control Sample) | This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample. |
| Surrogate Spike | Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples. |

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

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

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

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Appendix C: Photographs





Line ID 1: External, GF, Northern Metal Shed, East, to Floor, Construction Joint Mastic - No Asbestos Detected



Line ID 2: External, GF, Old Mortuary, South and East Windows, Window Caulking - No Asbestos Detected



Line ID 3: External, GF, Workshops, All Areas, Central and North Sections, Eaves, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 4: External, GF, Workshops, All Areas, Central and North Sections, Roof Gable Panels, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 5: External, GF, Workshops, All Areas, Central and North Sections, Walls, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 5.1: External, GF, Workshops, All Areas, Central and North Sections, Walls, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 6: External, GF, Workshops, All Areas, Central Section, Subfloor, Debris, Fibre Cement Debris - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 7: External, GF, Workshops, All Areas, Central Section, Subfloor, Packing, Fibre Cement Sheeting - Chrysotile Asbestos Detected



Line ID 8: External, GF, Workshops, All Areas, Central Section, Subfloor, Pipework, Lagging - Amosite Asbestos Detected



Line ID 9: External, GF, Workshops, All Areas, Central Section, Subfloor, Pipework, Moulded Fibre Cement -Chrysotile and Amosite Asbestos Detected



Line ID 10: External, GF, Workshops, All Areas, Central Section, Subfloor, South Wall, Profiled Cement Sheeting - Chrysotile Asbestos Detected



Line ID 11: External, GF, Workshops, All Areas, Central Section, West Windows, Thin Window Caulking - No Asbestos Detected



Line ID 12: External, GF, Workshops, All Areas, Central Section, West Windows, Thick Window Caulking - No Asbestos Detected



Line ID 12.1: External, GF, Workshops, All Areas, Central Section, West Windows, Thick Window Caulking - No Asbestos Detected



Line ID 13: External, GF, Workshops, All Areas, North and South Sections, Upper Walls, Profiled Cement Sheeting - Chrysotile Asbestos Detected



Line ID 13.1: External, GF, Workshops, All Areas, North and South Sections, Upper Walls, Profiled Cement Sheeting - Chrysotile Asbestos Detected



Line ID 14: Internal, GF, Northern Metal Shed, North, Distribution Board, Electrical Components - Suspected Asbestos



Line ID 15: Internal, GF, Old Mortuary, North Room, to Redundant Sink, Bituminous Material - No Asbestos Detected



Line ID 16: Internal, GF, Old Mortuary, South Room, on Floor, Fibre Cement Sheeting - No Asbestos Detected



Line ID 17: Internal, GF, Old Mortuary, Various Throughout, Light Switches, Bakelite - Suspected Asbestos



Line ID 18: Internal, GF, Workshops, Central Section, Ceiling Space, Dust - Chrysotile Asbestos Detected



Line ID 19: Internal, GF, Workshops, Central Section, Ceiling Space, Adjacent Access Hatch, Woven Blanket Material - Chrysotile Asbestos Detected



Line ID 20: Internal, GF, Workshops, Central Section, Central Office, Northeast, Bituminous Backing Board -Suspected Asbestos



Line ID 21: Internal, GF, Workshops, Central Section, Kitchenette, Under Sink, Sink Pad (no access), Bituminous Material - Chrysotile Asbestos Detected



Line ID 21.1: Internal, GF, Workshops, Central Section, Kitchenette, Under Sink, Sink Pad (no access), Bituminous Material - Chrysotile Asbestos Detected



Line ID 22: Internal, GF, Workshops, Central Section, North Store Room, North and South, Walls, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 23: Internal, GF, Workshops, Northern Section, Electrical Distribution Board 19 - Incinerator, Compressed Bituminous Panel - Suspected Asbestos



Line ID 23.1: Internal, GF, Workshops, Northern Section, Electrical Distribution Board 19 - Incinerator, Compressed Bituminous Panel - Suspected Asbestos



Line ID 23.2: Internal, GF, Workshops, Northern Section, Electrical Distribution Board 19 - Incinerator, Compressed Bituminous Panel - Suspected Asbestos



Line ID 24: Internal, GF, Workshops, Northern Section, Room 1004, Sink Pad, Bituminous Material - Chrysotile Asbestos Detected



Line ID 24.1: Internal, GF, Workshops, Northern Section, Room 1004, Sink Pad, Bituminous Material -Chrysotile Asbestos Detected



Line ID 25: Internal, GF, Workshops, Northern Section, Wall Lining, Fibre Cement Sheeting - Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 25.1: Internal, GF, Workshops, Northern Section, Wall Lining, Fibre Cement Sheeting -Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 26: Internal, GF, Workshops, Southern Section, Northern Unit, North, Wall, Fibre Cement Sheeting -Chrysotile, Amosite and Crocidolite Asbestos Detected



Line ID 27: Internal, GF, Workshops, Southern Section, Unit 1008, Floor, Dust - Chrysotile Asbestos Detected



Line ID 28: Internal, GF, Workshops, Southern Section, Unit 1008, North, Lower Infill Panels, Profiled Cement Sheeting -Chrysotile Asbestos Detected



Line ID 29: Internal, GF, Workshops, Southern Section, Unit 1008, Northeast, Stored Sheets, Compressed Cement Sheeting - No Asbestos Detected



Line ID 30: Internal, GF, Workshops, Southern Section, Unit 1008, Stored Item on Floor, Fibre Cement Sheet - No Asbestos Detected



Line ID 31: Internal, GF, Workshops, Southern Section, Unit 1009, Stored Item on Floor, Fibre Cement Sheeting - No Asbestos Detected



Line ID 32: Internal, GF, Workshops, Southern Section, Unit 1010, Stored Item, Underside of Sink, Bituminous Material -Chrysotile Asbestos Detected



Line ID 33: External, GF, Old Mortuary, Entrance Door, Brown Paint - Lead Detected (0.096% w/w)



Line ID 34: External, GF, Old Mortuary, Walls, White Paint - Lead Detected (0.30% w/w)



Line ID 35: External, GF, Workshops, All Areas, All Sections, Roof and Metal Work, Brown Paint - Lead Detected (0.26% w/w)



Line ID 36: External, GF, Workshops, All Areas, Central and South Sections, Timber Walls, White Paint - Lead Detected (0.18% w/w)



Line ID 37: External, GF, Workshops, All Areas, Central Section, West, Window Frames, White Paint - Lead Detected (0.24% w/w)



Line ID 38: External, GF, Workshops, All Areas, North and Central Sections, Walls, White Paint - Lead Detected (0.18% w/w)



Line ID 39: External, GF, Workshops, All Areas, North Sections, Northeast, Door Frame, Cream Paint - Lead Detected (0.12% w/w)



Line ID 40: Internal, GF, Old Mortuary, Central Door and Frame, Blue Paint - Lead Detected (12% w/w)



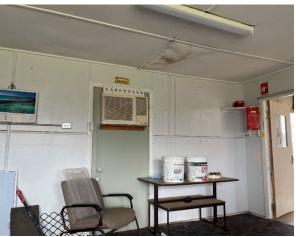
Line ID 41: Internal, GF, Old Mortuary, Debris on Floor, Cream Paint - Lead Detected (0.86% w/w)



Line ID 42: Internal, GF, Old Mortuary, Throughout, Ceiling, Blue Paint - Lead Detected (12% w/w)



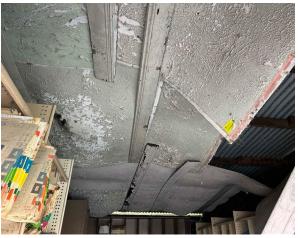
Line ID 43: Internal, GF, Old Mortuary, Walls, Cream Paint - Lead Detected (0.86% w/w)



Line ID 44: Internal, GF, Workshops, Central Section, Wall & Ceiling Lining, Blue (Light) Paint - Lead Detected (0.25% w/w)



Line ID 44.1: Internal, GF, Workshops, Central Section, Wall & Ceiling Lining, Blue (Light) Paint - Lead Detected (0.25% w/w)



Line ID 45: Internal, GF, Workshops, Southern Section, Unit 1011, Ceiling, White Paint - Lead Detected (3.1% w/w)



Line ID 46: Internal, GF, Workshops, Southern Section, Unit 1011, Debris on Surfaces, White Paint - Lead Detected (3.1% w/w)



Line ID 47: Internal, GF, Workshops, Southern Section, Various Timber Walls, White Paint - Lead Detected (0.18% w/w)



Line ID 48: Internal, GF, Old Mortuary, Ceiling Space, Dust - Lead Detected (290 mg/kg)



Line ID 49: Internal, GF, Workshops, Central Section, Throughout Ceiling Space, Dust - Lead Detected (5,400 mg/kg)



Line ID 50: Internal, GF, Workshops, Southern Section, Floor, Dust - Lead Detected (1,500 mg/kg)



Line ID 51: Internal, GF, Workshops, Central Section, Ceiling Space, Insulation Batts - Suspected SMF



Line ID 52: Internal, GF, Workshops, Northern Section, Room 1004, Sarking Insulation, Stored Item -Suspected SMF



Line ID 53: Internal, GF, Northern Metal Shed, Throughout, Light Fittings, Capacitor(s) - Suspected PCB



Line ID 54: Internal, GF, Old Mortuary, South Room, Light Fittings, Capacitor(s) - Suspected PCB



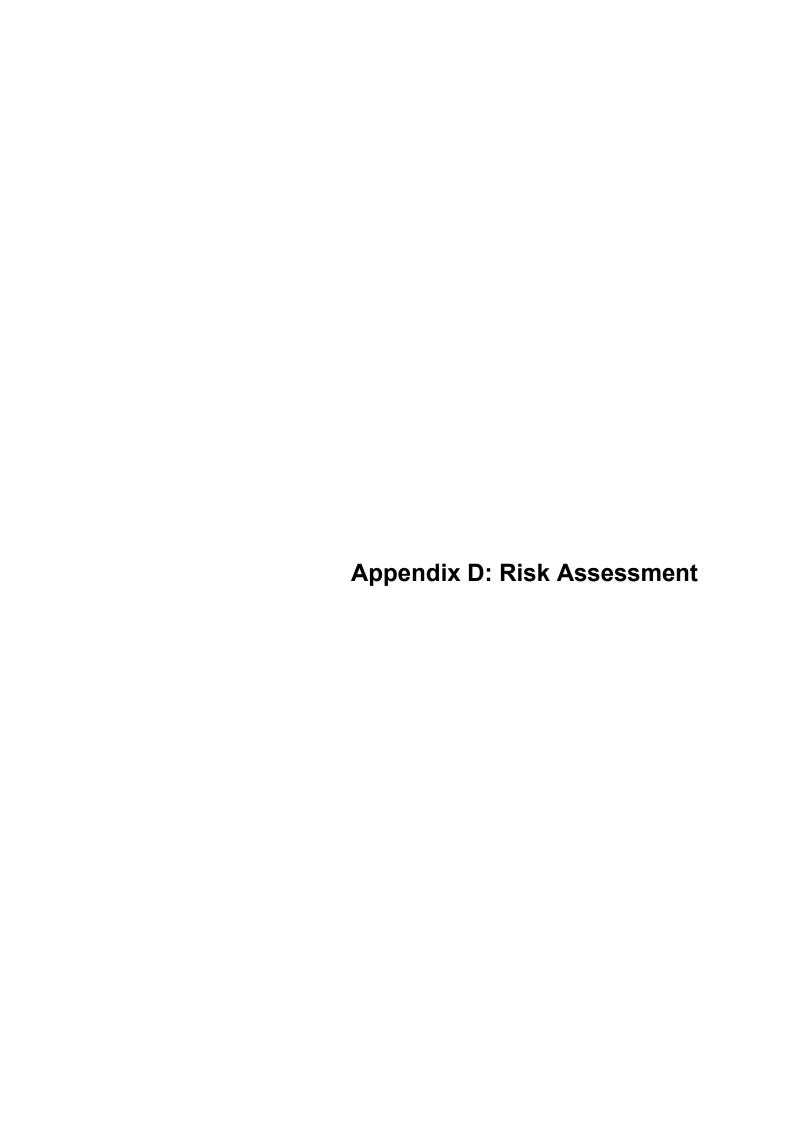
Line ID 55: Internal, GF, Workshops, Northern Section, Double Tube Fluorescent Light Fitting, Capacitor(s) - Suspected PCB



Line ID 56: Internal, GF, Northern Metal Shed, North, AC Unit, Unknown Refrigerant - Suspected ODS



Line ID 57: Internal, GF, Workshops, Central Section, Central Office, AC Unit, R22 Hydrochlorofluorocarbon (HCFC) - ODS Refrigerant





Risk Assessment

The risk assessment is explained, in the tables below. Our semi-quantitative risk assessment borrows elements from the materials risk assessment documented in HSG264: Asbestos: The survey guide – HSE and the priority risk assessment documented in HSG 227: A comprehensive guide to Managing Asbestos in premises – HSE, providing an element of quantification to the qualitative nature of site risk assessment.

Some of the elements of these well documented risk assessments have been omitted. Most notably the asbestos type from the materials risk assessment, as all types of asbestos are listed by the International Agency for Research on Cancer (IARC) as Type 1 Carcinogens. In addition, we have omitted the maintenance activity from HSG 277. The reason being that human risk factors associated with maintenance activities are often difficult to assess in-situ and require detailed input from the Person in Control of a Business of Undertaking (PCBU).

The risk assessment then takes into account all other Hazardous materials and utilizes similar algorithms to create a risk assessment for those materials.

The asbestos containing material risk score is a quantitative assessment determined by the sum of the scores based on the material assessment and the likelihood of exposure, i.e. Risk score = Material Score + Location Score (out of as possible 18).

An explanation of the material assessment and likelihood of exposure scores can be found in the tables below.

Table 2 - Risk Scores

| Overall Risk Assessment Score | Overall Risk Rating |
|-------------------------------|---------------------|
| 0 – 4 | Very Low |
| 5 – 8 | Low |
| 9 – 13 | Moderate |
| 14 – 18 | High |

Table 3 – Product Type (or debris)

| Examples of Materials - Asbestos | Examples of Materials - Hazmat | Score |
|--|--|-------|
| Asbestos reinforced composites (plastics, resins, mastics, roofing felts, vinyl floor tiles, semi-rigid paints or decorative finishes, asbestos cement etc.) | SMF composite products / insulation batts / woven products, Lead paint, Lead Compounds/Alloys/Products, Small PCB containing electrical capacitors | 1 |
| Asbestos insulating board, mill boards, other low- density insulation boards, asbestos textiles, gaskets, ropes and woven textiles, asbestos paper and felt | RCF woven/treated products, Lead paint flakes, Industrial PCB containing industrial transformers | 2 |
| Thermal insulation (e.g. pipe and boiler lagging), sprayed asbestos, loose asbestos, asbestos mattresses and packing | RCF loose fill products, Lead dust, PCB containing oils in bulk storage, or uncontained spills. | 3 |

Table 4 – Extent of Damage or Deterioration

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Good condition: no visible damage | Good condition: no visible damage | 0 |
| Low damage: a few scratches or surface marks; broken edges on boards, tiles etc. | Low damage: a few scratches or surface marks; Peeling paint, Large paint flakes, Redundant PCB container in accessible area out of electrical product | 1 |
| Medium damage: significant breakage of materials or several small areas where material has been damaged revealing loose asbestos fibres | Medium damage: significant breakage of materials or several small areas where material has been damaged, good condition sprays and insulation, large amounts of fine flaking paint and debris, Leaking PCB containing electrical equipment | 2 |
| High damage or delamination of materials, sprays and thermal insulation. Visible asbestos debris | High damage or delamination of materials. Visible debris, Lead dust, Pooling PCB oils, leaking oil bulk containers | 3 |

Table 5 – Surface type and treatment

| Examples of Materials – Asbestos | Examples of Materials - Hazmat | Score |
|---|--|-------|
| Composite materials containing asbestos: reinforced plastics, resins, vinyl tiles | SMF/RCF composite products, insulation products sealed behind a non-friable barrier, Lead paints <0.1%w/w, lead, compounds/ alloys/ products <0.1%w/w lead, PCB oils <2mg/kg | 0 |
| Enclosed sprays and lagging, asbestos insulating board (with exposed face painted or encapsulated), asbestos cement sheets etc. | SMF/RCF woven and insulation products, Lead paints ≥0.1%w/w and <0.25%w/w, PCB ≥2mg/kg and <50mg/kg in oil | 1 |
| Unsealed asbestos insulating board, or encapsulated lagging and sprays | SMF/RCF heat-treated insulation products, Lead paints ≥0.25%w/w and <1.0%w/w, Lead dusts above recommended clearance indicator based on AS/NZS4361.2. PCB ≥50mg/kg and <10,000mg/kg in oil | 2 |
| Unsealed laggings and sprayed asbestos | Lead dusts a multiple of at least 5 times above recommended clearance indicator based on AS/NZS4361.2, Lead paint >1.0%, ≥10,000mg/kg in oil (10%w/w) | 3 |

 $^{^{\}rm 2}$ Lead and PCB refers specifically to the analysis result





Legislative Requirements

The assessment, and preparation of this report have been undertaken in accordance with the requirements of State/Territories legislation and standards outlined below.

State/Territories Relevant Legislation

| States & Territories | Acts | Legislation |
|------------------------------------|--|--|
| Australian Capital Territory (ACT) | ACT Work Health & Safety Act 2011 | ACT Work Health & Safety Regulation 2011 |
| New South Wales (NSW) | NSW Work Health & Safety Act 2011 | NSW Work Health & Safety Regulation 2017 |
| Northern Territory (NT) | NT Work Health & Safety Act 2011 | NT Work Health & Safety Regulation 2017 |
| Queensland (QLD) | QLD Work Health & Safety Act 2011 | QLD Work Health & Safety Regulation 2011 |
| South Australia (SA) | SA Work Health & Safety Act 2012 | SA Work Health & Safety Regulation 2012 |
| Tasmania (TAS) | Tasmanian Work Health & Safety Act 2012 | Tasmanian Work Health & Safety Regulation 2012 |
| Victoria (VIC) | Victorian Occupational Health and Safety Act 2004 | Victorian Occupational Health and Safety Regulation 2017 |
| Western Australia (WA) | Occupational Safety and Health Act 1984 | Occupational Safety and Health Regulation 1996 |

States/Territories Code of Practices & Compliance Codes

| States & Territories | Codes of Practices & Compliance Codes | |
|------------------------------------|--|---|
| Australian Capital Territory (ACT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| New South Wales (NSW) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Northern Territory (NT) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Queensland (QLD) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| South Australia (SA) | Code of Practice: How to manage and Control asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Tasmania (TAS) | Code of Practice: How to Manage and Control Asbestos in the Workplace. | Code of Practice: How to Safely Remove Asbestos. |
| Victoria (VIC) | Compliance Code: Managing Asbestos in Workplaces. | Compliance Code: Removing Asbestos in Workplaces. |

| Western Australia (WA) | Code of Practice for Management and Control of Asbestos in Workplaces [NOHSC:2018(2005)]. | Code of Practice for the Safe Removal of Asbestos [NOHSC:2002(2005)] |
|------------------------|--|--|
|------------------------|--|--|

The Victorian Compliance Codes align with the intent of the SafeWork Australia Model Code of Practice

Hazardous Materials Standard & Guidance Notes

| Hazardous Material | Guidance Notes |
|-------------------------------|---|
| Lead Based Paint | AS/NZS <i>4361.2:2017</i> Guide to hazardous paint management – Part 2: Lead paint in residential, public and commercial buildings |
| Lead Containing Dust | National Environmental Protection Measure (NEPM) (NEPC,1999) as updated in 2013. |
| Synthetic Mineral Fibres | National Occupational Health and Safety Commission (1990) Synthetic Mineral Fibres; National Standard for Synthetic Mineral Fibres; and the National Code of Practice for the Safe Use of Synthetic Mineral Fibres |
| Polychlorinated Biphenyls | ANZECC (1997) Identification of PCB-containing Capacitors: An Information Booklet for Electricians and Electrical Contractors |
| Ozone Depleting Substances | UNEP (2001) Inventory of Trade Names of Chemical Products containing Ozone Depleting Substances and their Alternatives |

Each section is to be read in conjunction with the whole of this report, including the appendices.

Appendix F: Methodology



Methodology

Hazmat surveys are undertaken considering a risk management approach, in accordance with relevant statutory regulations and relevant Codes of Practice. A risk assessment was conducted based on a number of factors associated with hazmat identified during the survey and prioritised through Risk and Action Classifications.

The assessment involved the onsite investigation for the presence of ACM, SMF, LBP systems, LCD, PCB and ODS including chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) and hydrofluorocarbons (HFCs). Information was collected from the site owners/occupiers/tenants where available on relevant issues pertaining to the site. Based on the available data and the status at the time of inspection, where items were identified, visual and/or analytical characterisation (where required) was performed and reported in **Appendix A: Asbestos and Hazardous Materials Register**.

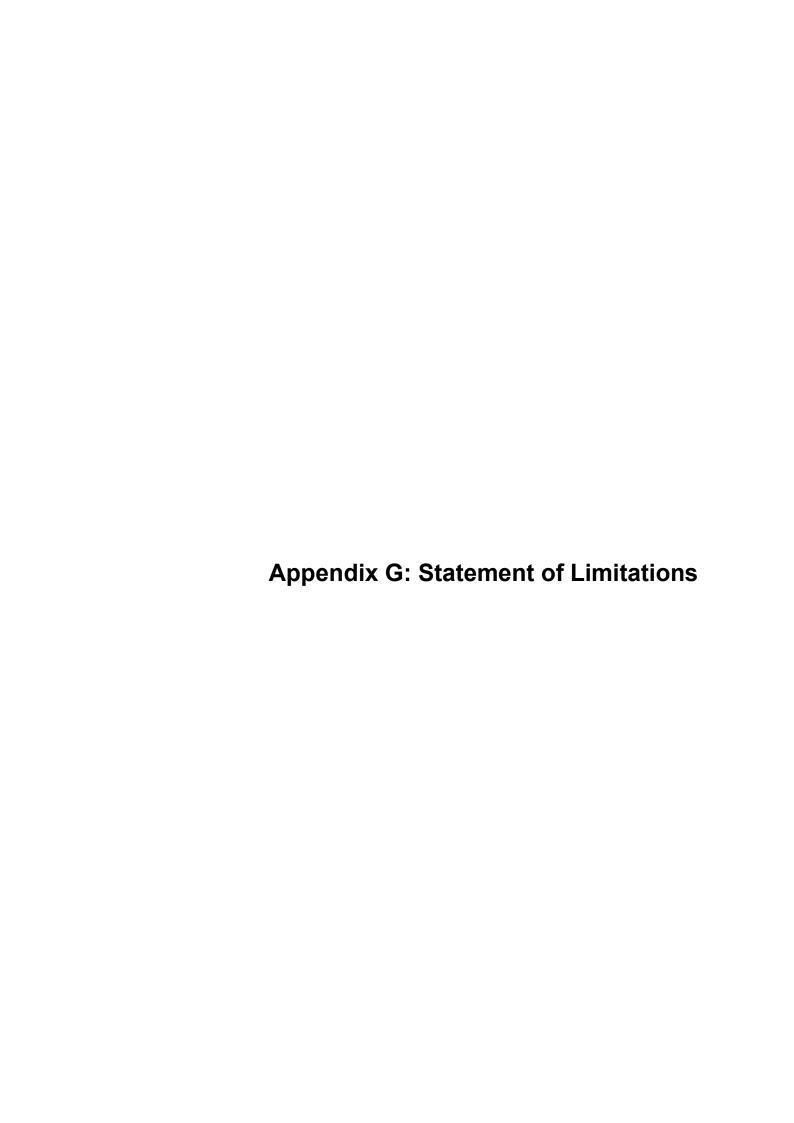
The assessment was conducted on the basis of the condition, type and location of the materials at the time of inspection. The scope of this investigation did not allow intrusive sampling techniques to be undertaken in all locations, and consequently the register may have limitations as a reference document for the purposes of renovation or demolition.

Only 'typical' suspected material occurrences are inspected and sampled. Sampling is undertaken on a representative basis, for example, the inspection of one fire door of the same type within the same area is undertaken (i.e. not every 'matching' fire door is examined), unless specifically instructed. Sample collection was performed in a non-destructive and non-invasive manner by competent persons. Presumptions, based on knowledge and experience, that inaccessible areas contain asbestos materials may also be made and stated within the register.

Samples collected are representative of the material sampled, individually identified, transported, analysed and reported in accordance with relevant Statutory Regulations, Codes of Practice and Tetra Tech's Work Instructions. Laboratories undertaking analysis are appropriately NATA certified for the analysis conducted. LCD thresholds are adopted from lead in soil thresholds found in the National Environment Protection Assessment of Site Contamination (ASC) Measure (1999) as amended in 2013 (NEPM).

The presence of asbestos in bulk samples is determined by Polarised Light Microscopy (PLM) with dispersion staining techniques. Where asbestos was found to exist, a risk assessment was conducted on each item and a priority rating applied. This was conducted in accordance with the protocols described in **Appendix D: Risk Assessment**.

The asbestos and hazmat register is made up of relevant information gathered on site plus Tetra Tech's assessment of risk and assignment of action ratings. Reference to photographs, where available, is made in the register along with sample identification and analysis results, where applicable. Sample analysis results from previous assessments may be utilised and referenced in this register.



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Statement of Limitations

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

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

Investigations have been based on inspections conducted in accordance with relevant guidelines and standards, and normal industry practice, having regard to the client's instruction, and interpretations of conditions are based on the data from those inspections and, where relevant and conducted, testing. To the best of our knowledge, they represent a reasonable interpretation of the condition of the site as able to be inspected.

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

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

The assessment brief is to identify every reasonably accessible hazmat. Reasonably accessible does not extend to searching for concealed hazmat beneath concrete encased structural beams or beneath concrete floors, behind another hazmat, or any other locations which, to access, would cause structural damage that could potentially destabilise the structure or the building. Given the way in which hazmat was used in the construction of buildings, some may only be detected during the course of subsequent demolition.

Any areas within the remit of the assessment but not described within the body of the report or in the hazmat register should be regarded by the client as un-assessed, and suspected as ACM potentially containing amphibole asbestos. A competent person should assess such areas before any work affecting them is carried out.

It must be assumed that materials visually assessed as presumed asbestos contain amphibole asbestos, unless sampled and analysed to prove otherwise. All areas where access was not possible must also be presumed to contain asbestos until proven otherwise.

Asbestos Containing Materials

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

Representative sampling is defined as one like sample per consistent material type, situation or item. In these instances, only one test sample will be collected for analytical confirmation and the results expressed as consistent and typical of the building. It is advisable to presume that materials similar to those positively identified as asbestos also contain asbestos until proved otherwise. It should not be presumed that materials similar in appearance to those tested and found not to contain asbestos also do not contain asbestos.

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

Notably, with some asbestos containing bulk material it can be very difficult, or impossible to detect the presence of asbestos using the polarised light microscopy analytical method, even after ashing or disintegration of samples. This is due to the low grade or small length or diameter of asbestos fibres

present in the material, or attributed to the fact that, very fine fibres have been distributed individually throughout the materials.

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

Internal building materials should be assumed to contain asbestos until otherwise assessed.

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

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

The following limitations and restrictions to specific materials, installations and locations are commonly found during assessments of this nature, even if safe access can be provided through consultation with the client this inspection and report may not include the following areas:

- Risers / Ceiling, Floor or Wall Cavities, and Voids may be completely blocked or bricked in. Occasionally may only be detected if shown on building construction plans or during demolition
- Columns / Structural Elements these will not be penetrated if doing so will damage the stability
 of the building
- Roofs / External Areas these will not be checked if safe access cannot be achieved
- Confined Spaces these will not be checked if safe access cannot be achieved
- Restricted Access areas subject to restricted access will not be checked unless special arrangements have been made through the client within the remit of the assessment
- Live Plant or Electrical Installations live electrical installations including fuse boxes, electrical control cabinets, distribution panels etc. are not routinely checked for safety reasons. Electrical equipment will only be examined if it is locked off and an isolation certificate has been issued. Under exceptional circumstances, when arranged by the client, examination of non-isolated equipment may take place under the supervision of an electrician
- Live Refrigerators / Cold Rooms / Mechanical Equipment / Heater Units / Kilns may contain asbestos internally, which is not visible or accessible until the unit is isolated and dismantled

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

This report does not comment on, or present information regarding regulatory waste disposal practices and the associated waste disposal legislative requirements for hazardous materials. Prior to the disposal of any hazardous materials from site, clarification from the EPA should be sought by you, the client or the controller of the site (PCBU).

As part of the site inspection, materials may be suspected to be non-hazardous based on age and/or appearance. If any of these materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and sampling of this material, with analytical confirmation should be undertaken in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Materials including (but not limited to) e.g. fire retardants, vermiculite, sprayed coatings and insulations cannot be feasibly sampled in their entirety due to the heterogeneous nature of such materials. Sample results provided are only representative of the material sampled, and in that particular sample location. If any such materials are damaged or likely to be disturbed, due to (but not limited to) maintenance activities or building inspections, a risk assessment and targeted area sampling, with analytical

confirmation should be undertake in conjunction with the processes outlined in the Asbestos Management Plan (AMP) for the site.

Should any other material suspected to contain asbestos or hazmat be found at the site, then works should cease and a suitably trained asbestos hygienist should be engaged to sample or assess the material.