Remediation Requirements Report

Openshaw Campus – Manchester College Based on Phase II GeoEnvironmental Site Investigation (Report A7009/25/SI/V2)

1. Executive Summary

The ground investigation identified asbestos fibres and fragments in 6 of the 8 soil samples tested, including both chrysotile and amosite. Concentrations ranged from <0.001% to 0.006%, with several samples exceeding the 0.001% threshold that triggers regulatory controls. Of the samples that exceed 0.001% there is only one within the build footprint/excavation zone on site, WS02, and all samples were found at a level beneath the current car park build up.

The report states:

"Asbestos fibres and fragments were identified in 6no. of the 8no. soils samples analysed."
"Due to the elevated concentration (>0.001%) of asbestos found in samples from across the site, an Asbestos Management Plan in accordance with CAR2012 will be required."

Therefore, asbestos in soils is confirmed and requires formal management and remediation measures before construction proceeds.

2. Summary of Asbestos Findings

2.1 Locations & Types Identified

From Table 12 of the report:

Location	Depth (m)	Asbestos Type	Form	Quantification
WS01	0.40	Chrysotile	Fibre bundles	<0.001%
WS02	0.40	Chrysotile	Microscopic insulation debris	0.002%
WS03	0.60	Chrysotile	Microscopic insulation debris	0.001%
WS04	1.20	Amosite	Fibre bundles	0.001%
WS05	0.50	Chrysotile	Fibre bundles	0.006%
TP02	0.30	Chrysotile	Fibre bundles	0.002%

3. Regulatory Framework

The required remediation measures must comply with:

- Control of Asbestos Regulations 2012 (CAR2012)
- HSE Guidance: Asbestos in Soil and Construction & Demolition Materials (CAR-SOIL)
- CIRIA C733 & C765
- CL:AIRE Asbestos in Soil Guidance (2016)

Under CAR2012, any soil containing >0.001% asbestos or containing visible fragments must be:

- Risk assessed
- Managed under a formal Asbestos Management Plan
- Handled by trained personnel
- Subject to controlled excavation and disposal procedures

4. Required Remediation Measures

4.1 Develop a Site-Specific Asbestos Management Plan (AMP)

As explicitly required by the investigation report:

“An Asbestos Management Plan in accordance with CAR2012 will be required.”

Please refer to the appended Asbestos Management Plan.

Asbestos Management Plan – WS02 Excavation Area

1. Introduction

This Asbestos Management Plan (AMP) has been prepared to support groundworks at the Openshaw Campus, Manchester College site, specifically for excavation activities at location WS02. The plan is based on the findings of the Phase 2 Geoenvironmental Site Investigation (Ref: A7009/25/SI/V2).

2. Scope

This AMP applies only to works at location WS02, which falls within the proposed excavation zone. The document outlines procedures to safely manage asbestos-containing materials (ACMs) identified within made ground during intrusive works.

3. Summary of Asbestos Findings

The site investigation identified the presence of asbestos fibres (chrysotile) within shallow made ground at WS02. The asbestos was identified at low concentrations within a heterogeneous made ground matrix. The material is classified as non-hazardous waste but presents a risk if disturbed during excavation.

4. Risk Assessment

The primary risk is exposure to airborne asbestos fibres during excavation and handling of soils. Risk pathways include inhalation by site workers and secondary spread via dust migration. The risk is considered low to moderate when appropriate control measures are implemented.

5. Roles and Responsibilities

- Site Manager – overall responsibility for implementation of this AMP.
- Environmental/Geoenvironmental Specialist – oversight of soil handling and validation.
- Principal Contractor – ensures RAMS incorporate asbestos controls.
- Operatives – comply with control measures and PPE requirements.

6. Control Measures

The following measures must be implemented during excavation at WS02:

- Controlled excavation using dampening/spray suppression to minimise dust.
- No dry sweeping or generation of dust.
- Segregation of suspect asbestos-containing materials where visible.
- Excavated materials handled carefully to avoid fibre release.
- Use of designated haul routes and minimal double-handling.

• Stockpiles to be covered or damped down.
• Wheel washing where required to prevent off-site tracking.

7. Personal Protective Equipment (PPE)

All personnel working within WS02 excavation areas shall wear:
• Disposable Type 5/6 coveralls
• Gloves
• Safety boots (non-laced or suitable for decontamination)
• FFP3 respirators or equivalent
• Eye protection as required

8. Materials Management

All excavated soils from WS02 shall be treated as potentially asbestos-affected. Materials shall either:
• Be reused on site in hardstanding or covered areas subject to validation, or
• Be disposed of at a suitably licensed facility.

Reuse shall comply with a Materials Management Plan and CL:AIRE Definition of Waste Code of Practice where applicable.

9. Monitoring and Verification

• Visual inspection by qualified personnel during excavation.
• Air monitoring if significant disturbance or dusty conditions arise.
• Validation sampling if soils are to be reused.
• Records of material movements and disposal documentation.

10. Unexpected Contamination

If higher concentrations of asbestos or asbestos-containing materials are encountered:
• Stop works in the affected area
• Notify the Site Manager and Environmental Specialist
• Reassess risks and implement additional controls
• Engage licensed asbestos contractor if required

11. Training

All personnel shall receive asbestos awareness training prior to commencing works. Toolbox talks specific to WS02 shall be delivered.

12. Conclusion

The asbestos identified at WS02 does not require formal remediation but must be managed during excavation. Implementation of this AMP will ensure risks to workers and the environment are suitably controlled.