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Joint Industry Working Group Code of Practice on Asbestos in Soils, Made Ground and Construction & Demolition Waste: Draft Expanded List of Heads		
	Preface	Statements by the Editor, the Principal Contributing Funders and the Regulators
	Executive Summary	
Chapter		
1	Introduction and Background	Set out the aims and objectives of the Industry Code of Practice
1.1	Purpose	
1.2	Intended Audience	
1.3	Scope	
1.4	Context	
1.5	Interface with CIRIA Guidance	
2	Regulation of Asbestos in the United Kingdom	Summarise the UK legislation and guidance applying to asbestos in general and specifically with reference to implications for work on soils, made ground and construction and demolition materials contaminated with asbestos: reference to principal differences in devolved administrations
2.1	Health & Safety at Work Act	
2.2	CDM Regulations	
2.3	Asbestos Regulations [2012]	
2.4	Asbestos Approved Codes of Practice: L143 - Work with Materials Containing Asbestos L127 - The Management of Asbestos in Non-domestic Premises	
2.5	Asbestos Guidance: HSG247 - Asbestos: The Licensed Contractors' Guide HSG248 - Asbestos - The Analysts' Guide for Sampling, Analysis and Clearance Procedures HSG264 - Asbestos: The Survey Guide	
2.6	Waste Management	
2.6.1	Road Transport	
2.7	Environmental Permitting	
2.8	Part IIA EPA 1990	
2.9	Planning/Development Control	
2.10	Building Control	
2.11	Civil Liability	
3	Quality Assurance & Quality Control	Summarise mandatory requirements and good practice guidance for laboratories and consultants.
3.1	ISO 17020	- preferred for surveying
3.2	ISO 17025	- required for analysis/air monitoring
3.3	Proficiency Testing - Analysis & Air Monitoring	- existing requirements and expanded system for analysis of soils
3.4	Quality Management Systems	ISO 9001 applied to asbestos
4	Training and Qualification Requirements	Summarise mandatory requirements; interface with Quality Management regimes. Persons requiring formal training include those whose work will knowingly disturb ACMs, such as ground workers and their supervisors; and those who carry out asbestos sampling and analysis.
4.1	Statutory Asbestos Awareness Training	Detail mandatory requirements for employers
4.2	Proficiency Schemes for Asbestos	Review available schemes.
4.3	Requirements for Proficiency Scheme for Asbestos in Soil	
5	Insurance Requirements	Summarise mandatory and non-mandatory requirements.
5.1	Employer's Liability	
5.2	Public Liability	
5.3	Professional Indemnity	

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6	Site Investigation and Sampling Protocols	Summarise key issues arising from the need to investigate sites potentially or known to be contaminated with asbestos in the context of the various regimes that apply: Duty to Manage, Part IIA EPA and Planning regimes.
6.1	Interface with other guidance: CLR11 BS 10175:2011 - Investigation of Potentially Contaminated Sites BS ISO 13081-1 - Design of sampling programmes BS ISO 10380-2 - Sampling techniques	
6.2	Desk Study and Site Walk-Over Survey	
6.3	Planning an Investigation	
6.3	Selection of Investigation Methods	
6.4	Sampling	
6.5	Uncertainty and Extrapolation	
7	Laboratory Analysis	Summarise the key issues, including the various stages of analysis dependent on the use of the data, e.g. hazardous waste classification, human health risk assessment, remediation design, treatability assessment under Development Industry Code of Practice. Refer to detailed analytical protocols.
7.1	Screening Analysis	
7.2	Qualitative Analysis	
7.3	Quantitative Analysis	
7.4	Limitations and Uncertainty	
8	Human Health Risk Assessment	Summarise the key issues arising from human health risk assessment in the context of revised Part IIA legislation framework and guidance relative to <u>Asbestos-Containing Building Materials and free fibres in soils and ground materials</u> .
8.1	Interface with Existing Framework	Discussion on existing HHRA framework and how the approach to asbestos differs from other contaminants
8.2	Problems and Limitations with Asbestos	
8.3	Practical HHRA Framework for Asbestos	Sets out the key aims and objectives of the HHRA framework in the context of different scenarios, existing use, re-use of contaminated materials etc. Aims to provide an overview of asbestos risk classification framework that ties in with new Part IIA framework;
8.4	Risk Assessment Criteria	Discussion of the HHRA framework criteria
8.5	Risk Classification System	Discussion of what the numbers mean
9	Remediation and Management of Asbestos-Contaminated Soils, Made Ground and Construction and Demolition Materials	Summarise the key issues arising from asbestos, environmental permitting and Part IIA legislation relative to management, handling and/or remediation of Asbestos-Containing Building Materials and free fibres in soils, made ground and C&D materials
9.1	Scenarios	Outline the different scenarios when asbestos in the ground may be encountered; earthworks, foundations, services, remediation etc.
9.2	Management Strategies	Outline the different strategies that may be developed when asbestos in the ground is encountered; remediation, re-use, engineering controls, burial, etc.
9.3	Management Requirements	Outline the different requirements imposed by law and guidance for each identified scenario/management strategy
9.4	Interface Between Environmental Permitting and Asbestos Licensing Regimes	Discussion on interface between EP SRP's and Non-Licensable, NNLW and Licensable Work; framework chart for decision making
10	Waste Management and Resource Recovery	Summarise the key issues arising from waste management legislation including commentary on hazard and risk-based assessment relative to <u>Asbestos-Containing Building Materials and free fibres in soils and ground materials</u> .
10.1	Waste Classification Levels and Limits: "Asbestos-Free", Non-Hazardous, Hazardous	
10.2	Interface with EA & HSE guidance	Discussion on EA and HSE policy on waste classification and re-use of C&D wastes contaminated with asbestos
10.3	Interface with WRAP Quality Protocols	
10.4	Interface with CL:AIRE Definition of Waste - Development Industry Code of Practice	How to comply with respect to asbestos in general and the direct transfer requirements in particular
10.5	Segregation and Treatment	Outline best practice for treatment, dependent on degree of contamination, together with associated controls on excavation, handling and transport
10.6	Re-use	Discussion of acceptable uses, dependent on degree of contamination, together with associated controls on excavation and transport
10.7	Disposal	Discussion of disposal routes, dependent on degree of contamination, together with associated controls on excavation and transport
11	Conclusions and Recommendations	

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Appendix		
I	Asbestos: Properties & Health Effects	Include detail on how asbestos behaves in the ground and inherent variability
II	Asbestos: Occurrence and Uses	Include detail on friable and non-friable asbestos-containing building materials (ACBM's) and free fibres
III	Asbestos: Safe Work Practices, Control Measures and Protective Equipment	
IV	Asbestos: Air Monitoring Procedures and Limits	Including personal sampling and ambient/background reassurance monitoring
	Control Limits Ambient Limits Clearance Indicator Limit	
V	Investigation of Asbestos in Soil and Ground Materials: Detailed Methodology	Sets out a UK industry-standard approved methodology; include details of field screening protocols. Compatible with existing framework
VI	Analysis of Asbestos in Soil, Made Ground & Construction & Demolition Waste Materials: Detailed Methodology	Sets out a UK industry-standard approved methodology
VII	Assessment of Asbestos in Soil and Ground Materials: Detailed Human Health Risk Assessment Framework	Sets out a simple and robust assessment framework/methodology that fits with the revised UK Part IIA framework and takes account of material hazard and environmental factors.
VIII	Selection of Good Practice Case Studies & Example Scenarios	
IX	Summary of International Approaches	