

Overview

This flowchart provides an overview of the process used in England to decide whether land that may have enhanced levels of radioactivity should be determined to be contaminated as defined within the statutory regimes for the identification and remediation of land contaminated with radioactivity made under Part 2A of the Environmental Protection Act 1990. For simplicity, aspects of the contaminated land regime that are not directly related to this process are not included in the flowchart (for example processes associated with assigning liabilities). Whilst outside the scope of this flowchart, it is important to recognise that the risks posed by any non-radiological contaminants must also be suitably managed.

In the flowchart, Local Authorities (LA) are responsible for actions within the cells headed by an orange banner whilst the Environment Agency (EA) is responsible for actions within cells headed by a green banner. Cells which are headed by a pink banner contain generic steps which are to be undertaken within the process and which are not owned by any particular organisation.

Hyperlinks to particularly useful sources of information are provided in relevant cells with a full reference for each document provided in the reference section below. For simplicity, reference to the [Statutory Guidance](#) (BEIS, 2018) is not given in the flowchart as this document should be consulted throughout the process of determining whether land is radioactively contaminated.

In addition to identifying sources of published guidance, the flowchart also indicates where specialist advice can be sought from government agencies such as [Public Health England](#) (PHE), the [EA](#) or the [Health and Safety Executive](#) (HSE). It should be noted that such advice may incur a charge.

References

BEIS (2018). Environmental Protection Act 1990: Part IIA. Radioactive Contaminated Land Statutory Guidance. Department for Business, Energy and Industrial Strategy.

Defra (2010). Contaminated Land Remediation Sp1001. Department for Environment, Food and Rural Affairs

Defra (2011). Environmental Permitting Guidance. Radioactive Substances Regulation. For the Environmental Permitting (England and Wales) Regulations 2010. Version 2.0.

Defra (2013). Environmental Permitting Guidance. Core Guidance for the Environmental Permitting (England and Wales) Regulations 2010.

EA (2004). Model Procedures for the Management of Land Contamination. Contaminated Land Report 11. Environment Agency.

EA (2006a). Detailed inspection of radioactive contaminated land under Part 2A EPA 1990. Guidance for local authorities on the collation and assessment of documentary information B20(a). Environment Agency.

EA (2006b). Detailed inspection of radioactive contaminated land under Part 2A EPA 1990. Guidance for local authorities on visual inspection and limited surveys B20(b).

EA (2010a). Radiological monitoring technical guidance note 2: Environmental radiological monitoring. Version 1. Environment Agency.

EA (2010b). Verification of remediation and land contamination. Report: SC030114/R1.

EA (2011). The Radioactively Contaminated Land Exposure Assessment Methodology – Technical Report. CLR-14. Environment Agency.

EA (2012a). Radioactive Contaminated Land Briefing Note: Potential sources of radioactive contamination. Environment Agency.

EA (2012b). Radioactive Contaminated Land Briefing Note: Voluntary remediation of land. Environment Agency.

HSE (2018). Work with ionising radiation: Ionising Radiations Regulations 2017. Approved Code of Practice and Guidance.

IAEA (2007). Remediation Process for Areas Affected by Past Activities and Accidents. Safety Guide No. WS-G-3.1. International Atomic Energy Agency. Vienna.

IAEA (2012). Guidelines for Remediation Strategies to Reduce the Radiological Consequences of Environmental Contamination. Technical report series no. 475. International Atomic Energy Agency. Vienna

NIGLQ (2012). Industry Guidance: Qualitative Risk Assessment for Land Contamination, including Radioactive Contamination. Nuclear Industry Group for Land Quality.

Oatway and Mobbs (2003). Methodology for Estimating the Doses to Members of the Public from the Future Use of Land Previously Contaminated with Radioactivity. NRPB-W36. Chilton.

PHE (2015). UK Recovery Handbooks for Radiation Incidents 2015. Version 4. Chilton

PHE (2020a). Historical land uses in the UK with the capability of producing radioactively contaminated land. Chilton. Public Health England. CRCE-RAD-001-2020.

PHE (2020b). Risks from land contaminated with radioactivity. Public Health England. . CRCE-RAD-002-2020

PHE (2020c). Principles for assessing the radiological impact from using land contaminated with radioactivity. Public Health England. CRCE-RAD-003-2020.

PHE (2020d). Frequently Asked Questions on Radioactively Contaminated Land. Public Health England. CRCE-RAD-004-2020.

PHE (2020e). Guidance on the Selection of Remedial Actions for Land Contaminated with Radioactivity. Public Health England. CRCE-RAD-005-2020.

SEPA (2017). Guidance on monitoring for heterogeneous Radium-226 sources resulting from historic luminising or waste disposal sites. Scottish Environment Protection Agency.

SNIFFER (2007). Environmental Legislation and Human Health – Guidance for Assessing Risk. Scotland and Northern Ireland Forum for Environmental Research. Project UKCC02.

SNIFFER (2010). Communicating understanding of contaminated land risks. Scotland and Northern Ireland Forum for Environmental Research. Project UKLQ13.

