Advice for Developing Brownfield Sites in Fife

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This guide does not replace the statutory guidance.

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Introduction
This guide aims to provide initial advice to anybody who is proposing to develop—or is involved in the development of—land that may be affected by contamination from previous industrial processes. The purpose of this guide is to make developers aware of their responsibilities and to set out the information that is required to enable decision making in the planning process.

Government strategy recommends that 60% of new development should take place on brownfield land. Brownfield is any land that has been used previously. It is often vacant and sometimes there are derelict buildings remaining on site. Brownfield sites can offer attractive development opportunities in prime areas. Fife Council encourages development in accordance with published guidance* . This is to ensure sites are suitable for their proposed end-use.

Phased Site Investigation
Where contamination is known or suspected, the following site investigation procedure is recommended (see Figure 1 on Page 3) to assess any risk to water resources and the environment as well as to human health. Normally an environmental consultant would do this. Not all phases of investigation will be required at every site: adopting a phased approach concentrates resources and can save time and money.

Risk assessment uses a Conceptual Site Model, which is updated throughout the different phases of investigation.

Phase 1 - Desk Study and Site Walkover
The desk study will consider all potential sources of contamination, likely receptors and the possible pollutant linkages connecting them. The conclusions of the desk study may recommend progression to Phase 2.

Phase 2 - Intrusive Investigation and Analysis
If required, an intrusive investigation will attempt to prove or disprove any pollutant linkages identified at Phase 1 by analysing soil, water and ground gas. The investigation report may provide appropriate remedial options.

Phase 3 - Remediation Statement
Should remedial action be required, the proposed methodology must be submitted to the Council for approval before any other works commence.

Phase 4 - Verification Report
Following any remedial works, a verification report must be submitted to the Council for approval clearly demonstrating that all pollutant linkages have been broken.

A checklist for each of these stages is attached and should be included as part of the submitted report. The checklist shows the minimum that is expected. We may return reports that fail to meet these requirements.

* Including PAN 33, R&D 66, CLR 11 and BS 10175:2011
The Planning Process

The risk of contamination cannot be ignored on previously used land. It is essential that applicants and their agents provide as much information as possible to the Council at every stage of the planning process. Withholding information could delay your application. It is your responsibility to inform the Council of progress.

Contaminated Land reports submitted in support of planning applications must satisfy the requirements of the published guidance. Developers proposing to develop land that may be contaminated are advised to contact the Council at an early stage to discuss possible land contamination issues before submitting a planning application. Developers can be liable for knowingly permitting residents to live on a site where there is a risk from contamination. Scottish Executive (now Scottish Government) Planning Advice Note 33 (Para 43) says:

"Where planning consent is granted for a site on which the presence of contamination is known or suspected, an advisory note may be attached to the planning permission informing the applicant(s) that the responsibility for the safe development of the site rests with the developer. It may also warn the applicant that the planning authority has determined the application on the basis of the information available to it, but this does not mean that the land is free from contamination".

Unacceptable risk from contamination must be addressed through remedial action without undue environmental impact during and following the development. This might include making future owners aware of any ongoing monitoring or maintenance arrangements through the title deeds.

Failure to meet these requirements could result in investigation by Fife Council under Part IIA of the Environmental Protection Act 1990 (as amended).

Fife Council’s Contaminated Land Inspection Strategy

Whilst Government guidance recognises that potential contamination is a material planning consideration—and that the development phase is the most cost-effective time to deal with it—the Council has a duty under Part IIA of the Environmental Protection Act 1990 (as amended) to inspect its area for potentially contaminated land irrespective of whether it is subject to a development proposal. Where contamination is significant, the Council will actively take steps to remove or reduce the risk to people and the environment and can pursue individuals or companies for recompense. The Council’s Contaminated Land Inspection Strategy is available online at www.fifedirect.org.uk/contaminatedland.
Fig.1: Procedure for assessing and addressing contaminated land concerns.
Choosing Consultants

Some of the processes involved in the development of potentially contaminated land will require the use of specialist environmental consultants or the services of a drilling contractor and analytical laboratory. Take care when appointing a consultant: applicants should ensure their consultants fully understand and can meet the requirements of the attached checklists. Fife Council cannot recommend consultants; reference may be made to trade directories or to www.endsdirectory.com.

Useful Contacts

Development Management
Fife Council
Kingdom House
GLENROTHES
KY7 5LY
E-mail: development.central@fife.gov.uk
Web: www.fifedirect.org.uk/planning

Contaminated Land Team
Fife Council
Kingdom House
GLENROTHES
KY7 5LY
Tel: 08451 550022

SEPA (Central and East Fife)
Pentland Court
The Saltire Centre
GLENROTHES
KY6 2DA
Tel: 01592 776910

SEPA (Dunfermline and West)
Bremner House
The Castle Business Park
STIRLING
FK9 4TF
Tel: 01786 452595

References


• Scottish Executive 2000: "Development Of Contaminated Land" (PAN 33) www.scotland.gov.uk


• Construction Industry Research And Information Association 2007: "Assessing risks posed by hazardous ground gases to buildings" (C 665) www.ciria.org.uk

• British Standards Institute 2011: "Investigation of potentially contaminated sites – Code of practice" (BS 10175:2011) shop.bsigroup.com
Planning Number: ___/________  Site Name: _______________  Date: ___/___/___

Minimum Requirements — Phase 1 Desk Study
✓
- **Purpose & Aims** (stating the reason the report was commissioned)
- **Site location plan and proposed development plan where available**
- **Site walkover** (including photography and detailed site observations)
- **Site history** (with former uses on and adjacent to the site plus historical maps)
- **Environmental setting** (detailing geology, surface and groundwater, property and ecological receptors)
- **Conceptual Site Model** *(this is essential*, describing all potential source–pathway–receptor linkages)*
- **Interpretation of Conceptual Site Model** *(including qualitative risk assessment)*
- **Conclusions & recommendations**

Planning Number: ___/________  Site Name: _______________  Date: ___/___/___

Minimum Requirements — Phase 2 Investigation

*If a ground investigation report is submitted as a combined Phase 1 / Phase 2 document, it will be expected to contain all of the above elements plus the following:*
✓
- **Sampling strategy** *(referring to BS 10175 for methodology and justification)*
- **Borehole & trial pit logs**
- **Gas & vapour monitoring results** *(including ambient pressure and flow rates)*
- **Chemical test data with quality assurance procedures** *(including laboratory certification and chain of custody documentation)*
- **Site Specific Risk Assessment** *(including use of applicable guideline criteria derived from the appropriate risk assessment methodology or software)*
- **Interpretation of results** *(showing comparison with generic or site-specific criteria and highlighting any exceedances)*
- **Revised Conceptual Site Model** *(this is essential*, showing details of all identified source–pathway–receptor linkages)*
- **Interpretation, conclusions & recommendations** *(including remedial options and proposals for further monitoring where required)*

This checklist is available for printing at [www.fifedirect.org.uk/contaminatedland](http://www.fifedirect.org.uk/contaminatedland)
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