

CONTAMINATED LAND

GEOENVIRON



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GeoEnviron Contaminated Land Module

Part IIA and Data Management

The way in which Local Authorities (L.A.'s) make use of environmental data in the course of implementing Part IIA will determine the degree to which their strategies are successful.

How should I be managing Part IIA data?

Managing the information on potential sites is an onerous task due to both its quantity and varied nature. Although GIS is a powerful tool when used for spatial visualisation and analysis, it has limitations when it comes to managing and querying complex non-spatial datasets. It is now generally accepted that a robust and efficient relational database management system (RDBMS) that can be integrated with a GIS is an essential additional tool.

When considering databases, it is worth taking note of Section 4.8 of the Contaminated Land Strategy Technical Advice Note which sets out the basic requirements for a data management system. These are summarised below.

The Information Management System must be:

- Secure
- Capable of logging all information provided with respect to individual areas of land
- Able to tag information type (e.g. commercially confidential, subject to national security constraints, etc.)
- Capable of being audited to ensure that any information held is both accurately recorded and up to date

The note also stresses that L.A.'s will need to consider how all relevant departments and third parties will be given access to information on contaminated land.

Key benefits from using GeoEnviron

The GeoEnviron Contaminated Land module fulfils all the requirements laid out in the technical advice note. In addition to this, GeoEnviron delivers the following benefits:

- ▶ **Effective data and document management**
GeoEnviron allows you to reliably and efficiently manage all the data you are likely to collect. Data (i.e. reports, digital images, sample analyses, borehole logs, etc) can be entered directly into the database or linked to using the system's extensive document management facilities.
- ▶ **Powerful data querying**
GeoEnviron's simple to use but powerful SQL querying capabilities can then be used to search the database and the results of the query sent to the GIS for spatial visualisation.
- ▶ **Powerful GIS capabilities**
GeoEnviron comes with extensive GIS integration capabilities. You can choose between a specially tailored, user friendly embedded GIS or a seamless integration to external GIS programs such as ArcGIS, Mapinfo Professional, Cadcorp, GeoMedia or Microstation.

▶ **A proven Site Prioritisation system**

GeoEnviron comes with a simple to use, robust and transparent site prioritisation system. The system automatically generates inspection and action programmes to make sure that you stay on schedule with your strategy implementation.

▶ **Extensive decision support**

GeoEnviron comes with a powerful decision support system in the form of detailed information on industry profiles, hazardous contaminants and remediation technologies.

▶ **Scalability**

GeoEnviron is highly scalable and can be used as a single or multi-user system.

▶ **E-government**

GeoEnviron is E-government enabled allowing for effective sharing of data in the database with internal colleagues and the public via an intranet or the internet.

▶ **Performance monitoring reporting**

GeoEnviron has a selection of standard reports that allow you to easily produce BVPI's and other statistics.

▶ **Comprehensive**

The Contaminated Land module integrates with other GeoEnviron Modules including the Site Survey Manager which allows the management of sample analysis and borehole data from site investigations.

▶ **References**

The module is currently being used by over 25 local authorities across England and Wales.

System Requirements

- ▶ *GeoEnviron requires a minimum of Windows 98 as an operating system. For a single user system, a minimum of a Pentium PC with at least 64MB RAM and 30 MB free disc space is recommended. Operating systems such as NT or 2000, UNIX, and Novell Netware are recommended when running GeoEnviron in a multi-user client/server environment.*

Training and On-going Support and Maintenance

- ▶ *We provide top quality training and support services to make sure you get the most out of the system. Training can be arranged to take place on site or at our premises in Copenhagen. There is also a lively User Group and on-line discussion forum.*
- ▶ *We recognize that environmental health professionals work in an industry where change occurs frequently and consequently we try to design our systems such that they are able to rapidly adapt to these changes. To this end we are continuously developing our systems to ensure that they remain in line with the latest legislative and technological developments.*