

Gas protection



Containment



Bioremediation



Geosynthetics



Root barriers



# Engineered Solutions for Contaminated Land

- **Active and passive gas protection**
- **Containment and landscape liners**
- **Specialist geosynthetics for the construction and civil engineering industries**



# Engineered solutions for contaminated land

PAGeotechnical specialises in the management and risk reduction of contaminated land. PAGeotechnical offers a true turnkey service that includes all arrangements for construction and, with links to the geosynthetics industry, it can also supply a whole range of geosynthetic components to complement the project.

## Experts in our field

Contaminated land is a complex issue where legislation and standards are rapidly emerging and changing. As a result of the company's policy of keeping abreast of these changes, PAGeotechnical has developed a reputation as one of the UK's leading consultants in this field. Indeed, PAGeotechnical is actively involved in many of the industry's regulatory support and development processes.

## Specialised support

From the conceptual stage of a project to its final delivery, PAGeotechnical works with environmental, structural and civil engineering consultants and with contractors.

Working as part of the design team and linking with all stakeholders, PAGeotechnical contributes specialist support in its areas of expertise.



- Active and passive gas protection
- Landfill speciality applications
- Petrochemical industry containment and linings
- Bioremediation membranes and covers / fleeces
- Ornamental lake linings
- Agricultural, process and irrigation lagoon linings
- Root barriers
- Reed beds

## Gas protection



PAGeotechnical has developed a range of gas protection solutions for developments on land affected by soil gas.

### Passive gas protection

PAG's system is suitable for installations ranging from housing to industrial and commercial/retail, and PAG utilises products that conform to all current guidance.

At the heart of the PAGeotechnical system is a gas barrier membrane, in combination with a ventilation system, to remove gas. The installation and testing of these products is a skilled process and PAGeotechnical can provide this skill if required, on site.



### Active gas protection

For situations that demand a more comprehensive treatment than passive protection, PAGeotechnical offers active protection in the form of Clean Air Blanket or CAB.

A Clean Air Blanket system maintains a zone of positive air pressure beneath a building that dilutes and disperses any gas emerging from the ground. To do this, air from outside the building is introduced beneath the building via a system of pipes and diffuser heads. The air is then released at the perimeter of the building.

CAB provides complete peace of mind for both specifiers and owners of buildings. The fitness for purpose of each Clean Air Blanket installation is underwritten by product liability insurers. The system is also approved by BRE.



## Containment



PAGeotechnical Ltd specialises in the more complex geosynthetic applications such as aggressive containment or contaminated land.

Using a range of materials sourced from manufacturers around the world we are able to offer a cost effective and secure solution. Most of these products are reinforced, offering much greater tear resistance and strength than heavier grade materials.

PAGeotechnical offers design assistance and full-contract supply and installation as appropriate through its approved specialist installation sub contractors.



## Bioremediation



PAGeotechnical has developed a range of specialist materials especially suited to the applications of the bioremediation sector.

Bioremediation is an ever-moving area and processes are constantly being developed and refined. PAGeotechnical offers various high strength, low cost, exclusion materials for Biopile/Windrow isolation, as well as cover materials to improve the process performance. PAGeotechnical introduced the first degradable lining material through its association with Canadian manufacturer EPI.



## Geosynthetics



PAGeotechnical works alongside the world's top manufacturers of geosynthetics and we are experienced in specifying and installing these products. We are always willing to provide advice about geosynthetics for every type of application.



## Root barriers



PAGeotechnical provides root barrier solutions for a variety of applications.

Root barriers can be used for simple tree root problems and landscaping applications, to engineered barriers preventing the horizontal growth of Japanese Knotweed.

PAGeotechnical has a range of materials including Nicotarp 100 PE-based coated fabric and the Nicoflex range of reinforced polyethylene monomers.

Wherever invasive plants such as Japanese Knotweed have been identified PAGeotechnical can work with clients to develop a management plan - from basic solutions to re-direct root growth and eliminate surface rooting, to fully welded and installed vertical root barriers.



## Whatever it takes...

PAGeotechnical can either work alongside clients or their engineers, or provide full contract management services. Whatever the requirement, PAGeotechnical will always give impartial, independent advice, as solutions can be drawn from a variety of providers.

PAGeotechnical does not charge for project consultancy - only for materials and contracting - so not only can PAGeotechnical provide top class engineering to solve contaminated land problems, but we can also promise excellent value.

PAGeotechnical is actively involved in many of the industry's regulatory support and development processes. PAG participates actively in BGA (British Geomembrane Association), EIC (Environmental Industries Commission), ACIFC and BSI.

## Our clients

PAGeotechnical works with international corporations and public authorities, as well as main contractors, independent engineering consultants and local authorities.

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