

ASH

remediation
management

land remediation, contracting & waste management

BIOREMEDIATION GROUNDWATER TREATMENT PHYSICAL STABILISATION STABILISATION & SOLIDIFICATION TANK DECOMMISSIONING, REMOVAL & CLEANING OFF SITE TREATMENT & DISPOSAL INVASIVE SPECIES REMOVAL



WHAT WE DO

Ash Remediation Management are an independently owned SME specialising in contaminated land, groundwater remediation, waste management and geotechnical ground improvement.

Our team has over 30 years of experience in these sectors and our mission is to provide a well-organised and commercially focused service to facilitate the business goals of our clients.

Using a combination of in-house plant and equipment, Ash Remediation Management provide all of the necessary skills, resources and experience to successfully achieve its remediation objectives. Under the auspices and requirements of the company's Environmental Permit, Ash Remediation Management can address client liabilities and work around their development programme to smoothly and efficiently execute the remediation project.

Our staff are our biggest asset, therefore we provide them with the opportunities to develop through training in NVQ, Postgraduate and Health & Safety qualifications. Ash Remediation Management is a people business and all of the Directors are hands on, getting involved in every project from inception to completion.

Ash Remediation Management builds strong relationships with their clients and partners based on the traditional values of integrity and respect. Our remediation projects combine sound best practices whilst embracing innovation for new design and techniques.

The combination of traditional values and forward thinking means that our clients can rely on Ash Remediation Management to deliver an excellent all round service.



WHO WE WORK FOR

Ash Remediation Management are employed by a large variety of clients and the work that we carry out can be varied by type and scale.

Typical clients include the following:

- Private individuals undertaking their own development but do not want to add the additional expense of a consultant
- Small independent builders
- Some of the largest house builders in the UK
- Groundworks contractors
- Other remediation contractors who do not offer certain services, for example soil stabilisation
- Environmental Consultancies
- Local authorities
- Recycling companies
- Architects

Our clients recognise the advantages of employing Ash Remediation Management as we can offer anything from full turnkey remediation packages to individual project elements.

Ash Remediation Management are an enthusiastic, forward thinking team who strive to ensure that clients needs and expectations are exceeded. We fully understand the commercial risks and pressures placed on our clients and we work hard to conduct our projects smoothly and effectively. The individual experience of our team in both the land remediation and waste management industries provides the foundation of our highly professional service within the UK land remediation sector.

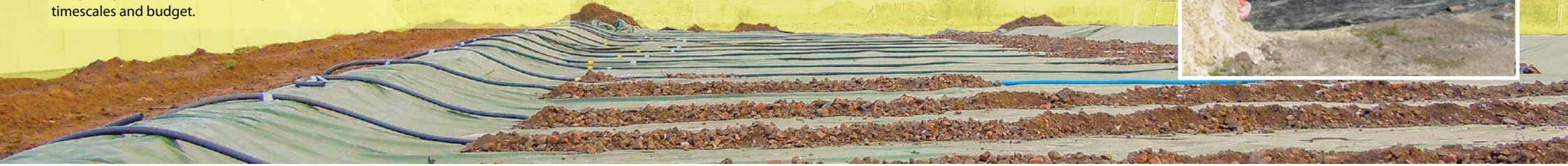


BIOREMEDIATION

Ash Remediation Management offer proven bioremediation methods and technologies for the treatment of contaminated soils and sediments, both on and off site.

Bioremediation focuses on the remediation of organic based contaminants including hydrocarbons, polycyclic aromatic hydrocarbons, petroleum, diesel, BTEX and semi volatile organic compounds. Treatment methodologies of varying complexity are available and the system used is based upon the contaminant, timescales and budget.

Dependent upon the individual contaminants and site conditions, biological treatment or bioremediation can be applied via aerated biopiles, windrows or land farming. The bioremediation systems enable control of various parameters e.g. temperature, moisture and oxygen within the soils, which allows us to optimise conditions for the rapid population growth of indigenous and introduced 'foreign' micro-organisms. The end result of this is the ability to control and manipulate the bioremediation system to achieve the fastest and most economical end result.



GROUNDWATER TREATMENT

Ash Remediation Management offer capability for groundwater treatment through *in-situ* and *ex-situ* systems. Each methodology can be designed to deal with a wide range of water borne contaminants including heavy metals, ammonium and TPH.

Chemical Oxidation is an *in-situ* approach to groundwater remediation whereby a contaminant specific oxidising reagent is used to facilitate the rapid and complete chemical destruction of the targeted compound.

Permeable reactive barriers (PRB) are another *in-situ* remediation method and they are based on the installation of passive and permeable barrier sections. PRBs are designed to intercept and immobilise water borne contaminants at the periphery of the targeted sites to control and mitigate the impact on offsite receptors.

Pump and treat systems are an *ex-situ* method regularly used for dealing with hydrocarbon contaminated waters encountered during excavations as well as those present as a result of oil spills. In addition to this, their use can be extended to many other applications including treatment of effluent, pesticides and pH.



TANK DECOMMISSIONING, REMOVAL AND CLEANING

Tank decommissioning, removal and cleaning are further services Ash Remediation Management can provide. The typical sites we encounter include petrol filling stations, haulage yards, industrial manufacturing plants and residential premises.

Storage tanks regardless of their size or contents are required to undergo periodic cleaning. This could be a basic maintenance requirement, due to a change in storage contents or simply because the tank is no longer required. Whatever the reason, Ash Remediation Management have the expertise and experience to provide you with the service you require.

Storage tanks that are no longer required can be decommissioned and either removed from site or filled with an inert foam. The decision on whether to remove or infill the tank will differ from site to site as there are advantages and disadvantages associated with each option. Needless to say, you can count on Ash Remediation Management to call on their experience to advise on the most suitable route to follow.



STABILISATION & SOLIDIFICATION

Ash Remediation Management has extensive experience in the contaminated soil and sediment stabilisation / solidification (S/S) field. Over the years we have completed numerous projects successfully treating hydrocarbons, cyanide, ammonium and heavy metals.

Implementing in-situ S/S uses the soil mixing capabilities of either a CFA piling rig or the Allu PMX Power Mixer. Both methods of application involve homogenising the contaminated material with the site specific S/S additive(s) (derived from feasibility trials) via ports located within the drilling head.



When S/S treatment is carried out *ex-situ* material is stockpiled and treated in batches using either an excavator with an Allu bucket attachment, a tractor pulled Stehr or a Wirtgen. Material is deposited in a sealed bunded area and the S/S additive(s) are introduced whilst the specialist plant combines them to form a homogenous mass.



PHYSICAL STABILISATION

Physical stabilisation is the process of improving the geotechnical properties of a material through the addition of hydraulic binders such as cement and lime.

The stabilisation process has been successfully used for a number of years and we have effectively stabilised various ground types including clay, sandy soil, peat and gullig. Depending on the blend of additives and the ground type to be stabilised, CBR values in excess of 30% can be achieved.

The stabilisation process is applied through specialist mixing plant, namely a tractor pulled Stehr, a Wirtgen or the Allu PMX Power Mixer. The nature of this specialist mixing plant enables large volumes of material to be processed and realistic throughputs of >1000m³/day can be achieved.



MASS STABILISATION AND DEEP SOIL MIXING

Mass stabilisation/deep soil mixing can be used in civil engineering and contaminated land remediation projects. Ground bearing capacity can be improved and contaminants immobilised through solidification. Rapid geotechnical enhancement has been successfully achieved with the ground being able to support advancing equipment and structures within a timeframe of days.

The ALLU Power Mixer and ALLU Pressure Feeder are versatile pieces of equipment that can be used in numerous stabilisation applications. Our mass stabilisation plant can be employed as a standalone solution or as part of a more integrated approach, either way it is the ideal system to address numerous stabilisation challenges.

Ash Remediation Management offer their ALLU equipment on an operated and non-operated basis anywhere in the UK or Ireland. Either part of the setup is available for hire and we can offer a full design service by conducting laboratory trials on the material to undergo treatment.



OFF SITE TREATMENT AND DISPOSAL

Ash Remediation Management has developed a cost effective and efficient formula for removing and recycling contaminated land.

Through an extensive UK network of soil treatment facilities, recycling centres and restoration sites, we can provide a full turnkey solution including data evaluation and subsequent offsite treatment or disposal. A significant additional benefit to our more sustainable 'muck away' options are that they are exempt from the ever increasing higher rate landfill tax.

Our 'muck away' concept has evolved from diverting contaminated soils from landfill and establishing strategic partners who specialise in treating material contaminated with TPH, PAH, heavy metals, cyanide, ammonia and high TOC. Our affiliated licensed treatment facilities have capability for bioremediation, stabilisation/solidification, soil washing, thermal desorption and incineration.

Through our network of waste treatment facilities and approved disposal providers, our off site treatment and muck away services include:

- Waste Classification
- Management and Support
- Hazardous and Non Hazardous Waste Removal and Muck Away
- Liquid Waste and Tanker Disposal

INVASIVE SPECIES

Japanese Knotweed

Japanese Knotweed is a tall, vigorous ornamental plant that is believed to have been introduced to the UK by a Victorian horticulturalist in the 19th century. It has since become an aggressive invader in both the urban and rural landscape presenting issues for residential and commercial landowners alike. When left to grow the plant can cause damage to buildings and underground services and will penetrate through damaged foundations and hard standing.

Although Japanese Knotweed is a highly invasive plant, it can be controlled successfully with the correct strategy, including on site treatment using herbicides.

Ash Remediation Management offer treatment solutions in accordance with the Environment Agency's Code of Practice for the control or eradication of invasive weeds. Our members of staff are fully competent and qualified by the National Proficiency Tests Council (NPTC) to carry out herbicide treatments.



MANAGEMENT SERVICES

Verification and Monitoring

As part of our core services, Ash Remediation Management has the capability to provide verification of works including collation of chemical and physical data to attain regulatory sign off for a remediation project.

Included within this expertise is the installation of monitoring wells to verify groundwater quality and to delineate the extent of contamination plumes. The installation of wells can be completed using various different drilling techniques and Ash Remediation Management can tailor the specific method used to our clients requirement.

We offer long term monitoring programs for specialist applications, including in-situ and above ground water treatment systems. These systems can require weekly or monthly sampling and the testing frequency can vary from days to several years. In all cases, Ash Remediation Management are able to provide our clients with a bespoke service.

Design, Support and Management

Ash Remediation Management complements its on-site specialist contracting services by providing remediation design.

This service is used by clients and their representatives in identifying the most cost effective and sustainable solutions for dealing with their contamination issues.

Additionally, we can provide the necessary support and management to our clients to safeguard their regulatory obligations and objectives during the remediation and monitoring works. This can be offered as part of a complete turnkey package or independently as a third party.



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With our key people operating from both our West Midlands and Southern offices, we are able to provide strategic access to the whole of the UK. Please contact our Support Network at our head office in the Midlands and they will put you in contact with the right member of our team to discuss your business needs.

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