Treatment Feasibility Trials

Pilot Trials

Oracle Environmental are specialists in the design and production of compact, rapidly deployable, modular remediation systems. These innovative and adaptable systems are highly suited to pilot trials on larger remediation sites to assess the feasibility of proposed remediation technologies.

Our experience is that remediation systems can often be specified incorrectly when pilot trials are not undertaken and significant cost savings can be achieved by tailoring the ultimate remediation design and approach.

We provide the highest quality information for the site, reduce unnecessary up-scaling and support the remedial options appraisal process.

The results from our pilot trials are critical for the understanding of treatment feasibility and the performance of remediation techniques. The specific performance data obtained from a pilot trial allows us to assess the applicability of specific remediation technologies or solutions under a variety of conditions .

Our treatment feasibility trials ensure that remediation is conducted efficiently to meet the clients needs, budgets and timescales.

+44(0)1684 252858

info@oracle-environmental.com

www.oracle-environmental.com

ISO 9001 Quality Management Systems CERTIFIED

ISO 14001 Environmental Management CERTIFIED

ISAS INTERNATIONAL SPILL ACCREDITATION SCHEME ACCREDITED CONTRACTOR

UK & Ireland Spill Association THE VOICE OF THE SPILL INDUSTRY

Achilles UVDB SILVER PLUS

Groundwater Remediation Feasibility Trials

Our towable Mobile Treatment Unit (MTU) can be deployed to sites where access may be restricted (e.g. demolition may be incomplete) and can be operational in just a few hours. Our MTUs have low operating and maintenance costs and are fully programmable. They can be un-manned and monitored remotely if required. The MTU can also support a variety of pumping operations but is specifically designed to operate multiple top-loading pneumatic pumps, treating up to 5m^3/hr. Pumped groundwater is clarified, recovered LNAPL separated and waters treated using filtration such as granular activated carbon prior to discharge.

Soil Vapour Extraction (SVE) & Sparging Feasibility Trials

Oracle Environmental have designed and built a custom, containerised SVE and sparge system. We can assess the viability of a remediation strategy using SVE techniques, to better understand potential recovery rates and guide future works. The system uses 2 ATEX blowers, is programmable and functionality can be monitored remotely. When desirable, air can also be sparged into the groundwater to assess whether the recovery of volatile contaminants can be further enhanced.

In-situ Chemical Oxidation (ISCO) Feasibility Trials

We can undertake pilot scale trials of oxidants to establish the potential efficacy of site-scale applications. The delivery of oxidants to the subsurface can be constrained by a number of factors.

A feasibility study will refine the conceptual site model (CSM) by monitoring the distribution and transport of the selected oxidant, evaluating potential rebound and inform future remediation costs and modifications.

Oracle Environmental have unrivalled experience in the design and implementation of a wide range of remediation techniques and their application to treat contaminants that pose a risk to health and the environment.

+44(0)1684 252858

info@oracle-environmental.com

www.oracle-environmental.com

bsi ISO 9001 Quality Management Systems CERTIFIED
bsi ISO 14001 Environmental Management CERTIFIED
ISAS INTERNATIONAL SPILL ACCREDITATION SCHEME ACCREDITED CONTRACTOR
UK & Ireland Spill Association THE VOICE OF THE SPILL INDUSTRY
ALTIUS ASSURED AWARD
Achilles UVDB SILVER PLUS