



Oil Spill Remediation Services

Release the value of your land

Specialist site investigation and remediation contractor



www.ersremediation.com



Turnkey Spill Specialists

Established in 1994, ERS is one of the most experienced specialist contaminated land site investigation and remediation contractors in the UK.

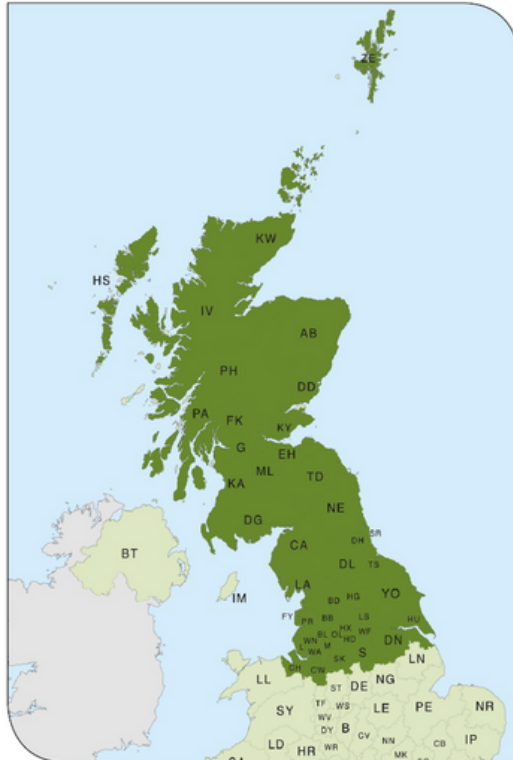
Oil spills are the most common form of environmental contamination. Whether on the scale of the Gulf Spill or a domestic kerosene leak, they can be devastating for those affected.

Turnkey Solutions in a Matrix Format

With over 30 professional staff, we are able to call upon in-house expertise to suit the requirements of each and every individual project.

For simple incidents we can respond with a small and focussed team to quickly deal with the issues and complete the project.

For more complex situations we are able to call upon our in-house expertise, so that solutions agreeable to all parties can be derived, the remedial work delivered and the regulator acceptance granted.



Meet the Team

Phil Amos

Regional Remediation Manager

Phil leads ERS' domestic spill response and turnkey remediation solutions capability. A Chartered Engineer and Chartered Environmentalist, he has over 20 years of experience in the environmental consulting and contracting industry. This includes clean up projects ranging from small scale domestic incidents to multiphase projects for blue chip commercial clients and the public sector.

George Arnott

Ground Investigation Team Leader

George heads up our in-house ground investigation team. He is a Fellow of the Royal Geological Society and has over 20 years' experience in ground investigation contracting, ranging from domestic oil spill incidents to foundation verification work for the new Queensferry Crossing across the Firth of Forth.

Nik Johnson

Technical Manager

Nik's primary role is the selection and design of remedial technologies including in-situ remediation programmes, selection of remediation reagents and treatment systems, and soil stabilisation design and specification.

JP Renaud

Technical Director

JP is an experienced hydrogeologist, having previously worked for SEPA (Scottish Environment Protection Agency) and the French nuclear industry. This experience proves highly useful for complex hydrogeology projects, such as hydrogeological containment barriers and groundwater plume modelling.

Our Accreditations

ERS has numerous accreditations which independently verify the quality of both our services and our health and safety management system. For H&S, we're accredited by several SSIP schemes including SafeContractor, CHAS and SMAS.



For our Oil Spill Remediation Services, there are a number of key relevant accreditations. We are active members of the UK Spill Association. As an Accredited Contractor, we are committed to raising and maintaining consistent standards of oil spill clean up in the UK.



Some of our Clients require Altius Vendor Assured, as an additional accreditation which goes beyond the requirements of the standard industry SSIP schemes. ERS has been a member of Altius since 2013.



With our own in-house drilling capability, we have installed wells to pump out hydrocarbon contamination from groundwater. As members of the British Drilling Association, we work to both promote the industry and improve techniques and standards.



Domestic Spills

1.8 million households in the UK and Ireland use domestic heating oil, and leakages from damaged tanks or pipelines can cause damage from minor to catastrophic. ERS has extensive experience in domestic oil spill remediation at all scales.

1 Initial Site Visit and Risk Assessment

The first stage is always a site visit to undertake an initial assessment of the problem. From its three response locations, ERS currently ensures prompt visits from professional experienced staff, and certainly within 24 hours for most areas.

As well as determining the scale of the spill, there is an assessment of the likely causes and where necessary, on-going spills are arrested, and effects minimised.

At this time the key risks are assessed, whether they are to the residents, their neighbours or to the wider environment. High concentrations of contaminants indoors may necessitate ventilation or even evacuation. Risks to a sensitive water body may require deployment of spill response kits, or mobilisation of a larger team.

After the initial visit a formal report is completed and submitted. In insurance cases, this permits consideration of liability and cover, thus enabling ERS to design remediation measures appropriate to the site specific circumstances.



2 Further Investigation and Risk Assessment

If further investigation is necessary, ERS' drilling crews can install boreholes to sample groundwater and measure vapours.

Where complete removal of all contamination is inappropriate or impossible, ERS' staff can work to risk assessed remediation standards.



3 Agree a Remediation Strategy

Once the objectives are agreed, ERS' remediation engineers will identify the most appropriate and cost effective methodology.

ERS staff are skilled and experienced in all techniques from excavation and disposal, through vacuum extraction techniques to chemical oxidation.



4 Delivering a Sustainable Solution

If disposal of contaminated soils is the best option, ERS is a licensed waste carrier and operates with a network of treatment centres to recycle soil and provide a sustainable solution.

ERS' technical staff employ the latest monitoring and sampling techniques to ensure that contaminant levels are validated and understood offering re-assurance to all involved.



Throughout this "turnkey" remediation process, ERS' experienced project managers ensure that all stakeholders are fully informed as to what is happening and why, and who they should call if they have any concerns, at any time.



5 Reinstatement of Building and Garden

In domestic situations, dealing with the risks associated with the contamination is only half the battle. Each homeowner wishes to be guided through the process, minimising disruption to their daily lives and ensuring that both internal and external re-instatement is completed to the highest standards.

To achieve this, ERS employs in-house landscapers who ensure that both hard and soft landscaping is re-laid to the highest standards and when the scope or detail is greater ERS can provide accredited sub-contractors bringing experienced tradesmen of all disciplines.

Recent Projects

ERS has successfully remediated hundreds of domestic oil spills which have resulted from myriad causes including tank failures, accidental damage, car accidents and lightning strikes.

We've treated spills which have impacted gardens, houses, water supplies and more; addressing risks to humans, property and the natural environment across the UK from the Shetland Islands to Jersey.



Westerskeld, Shetland

Project Value: £7,000

Timescale: 6 weeks

ERS was approached by a loss adjuster to assist a local waste management contractor who was working on site to clean up a domestic oil spill.

ERS was asked to review the contractor's documentation to date, investigate further and develop a remedial solution for this remote location to bring a cost-effective conclusion to the works.

3.55 tonnes of contaminated soils were removed from around the foundations, the field drain in the lawn and from beneath the deck running around the north side of the property. ERS took validation samples from across the open excavation and, to ensure that any residual contamination identified through this exercise was dealt with without requiring remobilisation to the Shetland Islands, applied a dose of chemical oxidant to the excavation.

The garden and field drainage were re-instated prior to de-mobilisation. Whilst ERS could not offer a soil treatment centre option for contaminated soils in this instance via off-site bioremediation, ERS was able to find a disposal route for contaminated soils at a more cost-effective facility than the on-island drill mud cuttings treatment facility, where soil treatment was proposed at a cost of £650/tonne.

Calmore, Southampton

Project Value: £60,000

Timescale: 4 months

A faulty oil pipe resulted in a significant (circa 1000 litres) oil loss adjacent to a domestic property, impacting the basement. Investigations discovered that the plasterboard and exterior blocks on the back (outside) wall of the basement were contaminated with oil. The property presented several challenges - being of three storey construction and constructed on a slope, with the affected wall being



made from specialist bricks and forming the main support for the house.

A Structural Engineer was employed to specify a replacement scheme for the material which required removal from the affected wall. A scheme was designed for propping of the structural girders to take place while the supporting outside wall was removed and replaced.

50 tonnes of contaminated material was removed from site and taken to a nearby Soil Treatment Centre, removing the need for disposal to landfill.

Farm in Jersey

Project Value: £1,000

Timescale: 1 month

ERS was appointed to provide independent, expert advice to possible solutions to water contamination resulting from an oil spill caused by faulty pipe work used to fuel farm vehicles. The oil leaked into the drain then a main culvert and subsequently a stream which ultimately fed into a reservoir. The stream was subsequently diverted to avoid potential contamination issues with potable water supply. ERS carried out an inspection of the system and sampled the stream to prove it was clean.



Industrial Spills

Alongside our work with domestic oil spills, ERS works with clients who have much larger scale, industrial spills. We work alongside our clients to investigate, assess and delineate the spill, and deliver a remedial strategy. We've been involved in several long-term clean-up projects, a few of which are highlighted.



Tank Farm, Stornoway

Project Value: £130,000

This site was a former tank farm for a Power Station. The site was subject to further hydrocarbon contamination by failure of ageing pipework infrastructure surrounding the in situ oil separator. The impact of this was evident on the nearby coastline triggering an immediate spill response and development of long term remedial strategy for this coastal site.

ERS used hydrogeological modelling to assess both physical and hydrogeological barrier technologies and their merits. A hydrogeological barrier system was designed and successfully installed into the existing site infrastructure. A phased remedial approach was designed integrated with ongoing site works and met the clients cost and time requirements.

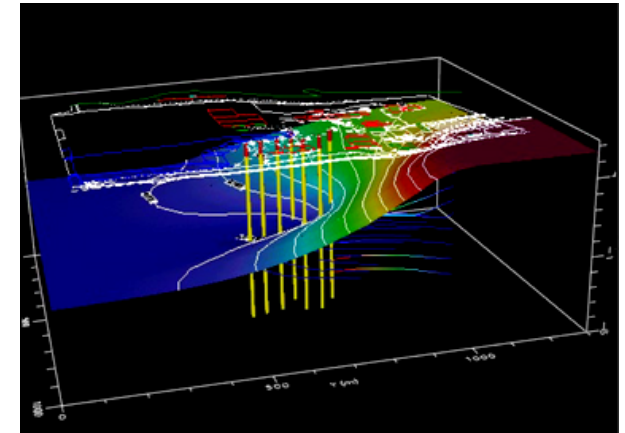
Nigg Yard

Project Value: £750,000

To date, the largest spill ERS has addressed is the loss of approximately 250,000 litres of diesel at the Nigg Oil Yard in Ross-shire.

With a leaking pipe causing an underground spill, it was a number of years before the diesel plume surfaced, but at that point oil spill measures were deployed including containment booms, absorbent materials and oil water separators.

ERS was employed to investigate, assess and remediate the site. This included an active product recovery system which collected over 120,000 litres of fuel for recycling. Throughout the process, regular stakeholder meetings were conducted to ensure that SEPA, the local authority and the client group were all fully informed of current and planned activities.



Dundee Distribution Yard

Project Value: over £1,000,000

An extensive free product plume was impacting the major aquifer and risked off-site migration on this geologically complex site.

As a live site, remedial work had to minimise disruption to vehicle movements in the busy goods yard and telecommunications associated with the call centre.

A robust remediation strategy was required. The use of a vacuum enhanced product recovery (VEPR) system enabled the efficient recovery of widespread but patchily-distributed hydrocarbons to levels that no longer posed a risk to groundwater.

Use of vacuum recovery and product skimming in combination with water draw down enabled simultaneous recovery of free phase hydrocarbons from rock fractures and residual phase from the unconsolidated glacial till, whilst continuing to treat contaminated groundwater above ground.

Over 30,000 litres of heating oil was recovered, with 77,000m³ of contaminated groundwater treated.

Contact Us

DOMESTIC & COMMERCIAL OIL SPILL SERVICES

MAIN CONTACT

Phil Amos **07789 957 825**
Edinburgh

ADDITIONAL CONTACTS

Nik Johnson **07917 523 717**
Glasgow

JP Renaud **07825 240 602**
Inverness

GLASGOW (Head Office)

**Westerhill Road
Bishopbriggs
Glasgow
G64 2QH**

0141 772 2789

info@ersremediation.com

NAIRN

**Unit 11A4
Balmakeith Ind. Est.
Nairn
IV12 5QW**

01463 241 222

EDINBURGH

**Midlothian
Innovation Centre
Roslin
EH25 9RE**

0131 440 8280

