



# Brownfield Land Scotland 2019

6 February | Edinburgh

## About this event

The 12th annual **Brownfield Land Scotland** conference will provide you with up-to-date information on the regulatory framework affecting brownfield development, as well as practical solutions to many of the risk assessment and remediation challenges associated with contaminated land and groundwater. With emphasis on actionable guidance specifically applicable to the brownfield agenda in Scotland, this information-packed, one day event brings together representatives from regulators, consultants and industry to provide first-hand advice to your specific challenges.

### Key topics to be addressed include:

- **Managing Scotland's Mining Legacy** with Appropriate Ground Gas Risk Assessment & Protection
- Maximising the **Benefits of Digital Data Collection** for Timelier & More Accurate Site Investigation
- Update on Changes to the **Scottish Planning Framework**
- **Transforming Vacant & Derelict Land** in Scotland: Unlocking Inclusive Growth
- **Asbestos in soil**: Practicalities of Working on Sites with Low Level, 'Trace' & Sporadic Asbestos Contamination
- Outlining the changes to **Waste Management policy** and legislation in Scotland

## Why attend?

### Expert panel

This event brings together a mix of regulators, practitioners and consultants to review and discuss key policies and practical solutions to a number of brownfield and contaminated land challenges.

### Current thinking

Written by you, for you; this programme has been written based on research with local authorities and consultants across Scotland to ensure it focuses specifically on those issues most pertinent to you now.

### Case studies

Learn from hands-on experience in a series of case studies which will provide technical guidance and practical frameworks, and come away with best practices that you can apply immediately within your organisation.

### Time efficiency and focus

Remove yourself from day to day distractions and benefit from a series of focused presentations, designed to tackle key issues and impart practical advice and guidance.

### Q&A panel discussions

In addition to expert-led presentations, there will also be a number of Q&A discussion sessions throughout the day, giving you the opportunity to address your specific questions and challenges and share your opinions with others.

### Networking

Meet and mingle with senior professionals in your sector - an invaluable networking and knowledge-sharing opportunity.

9.00 Registration and Refreshments

9.30 Opening Remarks from the Morning Chair

**Dr Tom Henman, Director - Geosciences, RSK**

### **Optimising the Viability and Deliverability of Brownfield Land in Development**

#### **09.40 Update on Changes to the Scottish Planning Framework and Implications for Brownfield & Contaminated Land Development**

- Update on the new Scottish Planning Bill and timescales for the development of National Planning Framework 4
- Clarifying the role of brownfield in Local Development (LDP) and Local Place Plans (LPP)
  - what safeguards will be put in place to effectively deal with contaminated land?
  - how can enforcement of planning conditions be better monitored and verified?
- Evaluating what further steps are needed to facilitate brownfield development and “unlock” viable land:
  - how will the new NPF4 improve delivery of housing and infrastructure across Scotland?

**Gordon Thomson, Associate Director, Lichfields**

#### **10.05 Transforming Vacant & Derelict Land in Scotland – Unlocking Inclusive Growth**

- Outlining key aims and objectives of the strategy to deal with vacant and derelict land in Scotland
- Exploring potential tools and mechanisms that could be used to address the problem
- Finding innovative ways to bring the land back into productive use

**Dr Martin Valenti FRSGS, Strategic Director, Scottish Land Commission**

10:30 Q&A

10.40 Morning Refreshments & Networking

### **Contaminated Land Risk Assessment**

#### **11.10 Ground Gas: Managing Scotland’s Mining Legacy with Appropriate Ground Gas Risk Assessment & Protection**

- Examining Scotland’s coal mining legacy and current hazards, including specific hazards and risks associated with mine gas:
  - the gases, their properties and the source-pathway- receptor model
- Clarifying the current regulatory stance on ground gas risk assessment on development sites, including former mine-works:
  - to what extent are increased energy efficiency requirements and climate change impacting on this?
  - assessing the effect of ground conditions on gas occurrence and management
- Assessing possible implications arising from the Gorebridge mine-gas case
  - what is the likely impact of mandatory gas protection on new developments for Local Council CLOs and EHOs and their consultants?
- Managing the issues around the effective validation and verification of gas protection measures
- Mine gas management and opportunities for the future

**Simon Talbot, Managing Director, Ground-Gas Solutions (GGS)**

#### **11.40 Exploring the Benefits of Digital Data Collection to Optimise Site Investigation & Remediation**

- Examining the benefits that site-based data collection is intended to bring
- Providing an overview of some of the available technologies and their application in the various stages of site investigation and remediation
- Exploring some applications of remote telemetry to improve field data collection
- Optimising the benefits of visualisation for enhanced site understanding and communication

*Project Examples will be used throughout the presentation to demonstrate technology applications*

**Jonathan Coulson, Principal Consultant, Site Evaluation and Restoration, Arcadis**

### **12.10 Asbestos in Soil: Practicalities of Working on Sites with Low Level, 'Trace' & Sporadic Asbestos Contamination**

- Defining soils with low level, 'trace', "negligible" and sporadic asbestos contamination
- Best practice for applying CARSOIL guidance to a site with minor asbestos contamination issues:
  - what is defined as "acceptable risk"?
  - what is the guidance for dealing with asbestos fibres in the air?
- Effectively managing material with minor asbestos contamination:
  - segregation of materials and avoiding cross contamination
  - techniques for processing and remediating low levels of asbestos fibres in soil
  - waste classification and reduction and assessing the costs of disposal
  - giving confidence to landfill and waste site operators in managing this material

**Steve Edgar, Managing Director (Designate), VertaseFLI**

12.40 Networking Lunch

13.30 Welcome Back from the Afternoon Chair:

**Iain McLellan, Lecturer in Environmental Chemistry, Centre for Environmental Research, University of the West of Scotland**

### **Contaminated Land Remediation Solutions**

#### **13.40 Developing a Framework for Achieving Safe, Compliant & Effective Remediation**

*"Why do many remediation projects go wrong?" Because those involved forget to focus on the five cornerstones of remediation i.e. Design : Contract : Review : Implementation : Close.*

*RemSoc is a UK society established by a group of professionals and practitioners, all working in the remediation sector and dedicated to supporting and representing individual practitioners involved in the remediation of contaminated and brownfield land. RemSoc have created a Practitioners Framework for Remediation to assist remediation practitioners and stakeholders in the planning and execution of remediation projects; from design through to implementation and verification.*

*The Framework has been developed to guide practitioners through the key stages of a remediation project and to signpost factors and decisions that may be required at each stage of the project. Aspects of legal compliance and reference points are also provided to assist in the safe and competent delivery of a remediation project.*

*This presentation will introduce the Framework and how it can be used to help deliver safe, compliant brownfield remediation in Scotland.*

**Richard Clayton, Director & Head of Ground Risk and Remediation, WSP Group**

#### **14.10 Smouldering Remediation of Heavily Contaminated Soils: Case Studies in Ex Situ and In Situ Applications**

*Smouldering remediation is capable of removing 99.9+% of heavy hydrocarbon contamination from soil using self-sustaining flameless combustion. Non-aqueous phase liquid (NAPL) contaminant serves as fuel*

*for smouldering supplying energy to the exothermic combustion reactions within the inert porous soil medium. Process efficiency increases with scale. In cases where insufficient NAPL is present, a benign fuel such as vegetable oil can be added to support smouldering. This presentation will examine in situ and ex situ case studies at sites around the world as well as frontiers in smouldering remediation research*

**Dr Christine Switzer, Department of Civil and Environmental Engineering, University of Strathclyde**

### **Waste Management & Re-use of Materials in Remediation Projects**

#### **14.40 Case Study: Sighthill TRA Remediation and its Place in the Scottish Circular Economy**

*The concept of a circular economy is one way we can help eradicate waste by keeping resources and products in use for as long as possible and Scotland is leading the way in developing a more circular economy. The VHE team's approach to the Sighthill TRA Remediation, where nearly 1,200,000 cubic metres of materials movements and processes were planned, optimised and managed, achieved the best use of materials and met Scotland's "Zero Waste" Plan targets.*

*This presentation will demonstrate how this was achieved.*

**Gordon Wilson, Construction Director, VHE Construction**

#### 15.10 Afternoon Refreshments & Networking

#### **15.35 Outlining the changes to waste management policy and legislation in Scotland and the implications for contaminated land projects**

- Detailing recent and forthcoming changes to waste policy in Scotland:
  - integrated authorisation framework
  - SEPA and sector plans
  - biodegradable municipal waste to landfill ban from 2021
- Outlining how enhanced compliance will affect sites going forward:
  - clarifying duty of care and associated liabilities
- Assessing the cost implications for brownfield and construction projects:
  - what can be done to manage and mitigate these?

**Laura Tainsh, Partner & Head of Environment & Waste, Davidson Chalmers LLP**

#### **15.55 Best Practice Waste Management Strategies for Remediation & Construction Projects in Scotland**

- Ensuring effective classification and risk-assessment of materials in line with current guidance
- Developing an effective Materials Management Plan (MMP) as part of your remedial strategy
- Evaluating different treatment, storage, disposal and re-use options to ensure the safe, compliant and cost-effective movement of materials on and off-site
- Accurately testing, reporting and verifying waste re-use on-site: what levels of testing should be undertaken?
- Project examples of innovative waste treatment and re-use

**John Curran, Managing Director, Soilutions**

#### 16.20 Q&A

#### 16.30 Closing Remarks from the Chair

#### 16:35 Close of conference followed by a Networking Drinks Reception