



Ground Remediation Systems Limited

## Remediation Feasibility Pilot Testing Trailer

Soil and Groundwater Remediation

Water Treatment

Vapour Treatment

Design & Supply

Installation & Commissioning

Operation and Control

Project Management



For a  
cleaner  
world



## Remediation Feasibility Pilot Testing Trailer



The GRS Pilot Trailer has been built specifically with a multi-functional capability to offer the operator a wide range of options for the performance of remediation feasibility trials. The system includes the following principal components:

- 100l inlet separator with level controls & high level shut-off;
- Oil ring vacuum pump (100m<sup>3</sup>/hr and near absolute vacuum);
- Side channel blower - 180 m<sup>3</sup>/h, 200mbar Vacuum;
- Compressor;
- Air Sparging Blower - Rotary Lobe (15cfm@1 bar);
- Progressive Cavity Transfer Pump;
- 1" (as available) additional diaphragm pump;
- 15m extension cable (SY Cable - armoured flex) with a 32 amp, 5 pin plug (with phase inverter);
- Optional Xitech Skimmer pumps or submersible pumps;
- Optional Oil/Water separator and vapour and aqueous phase treatment systems.

The system is intended to be operated in a variety of modes as follows:

- 1) Soil Vapour Extraction
- 2) High Vacuum Dual-Phase extraction
- 3) High Vacuum Multi-Phase (bio-slurping) extraction (MPE)
- 3) Air Sparging
- 4) Free-phase product (LNAPL or DNAPL) skimming/abstraction
- 5) Total fluids abstraction.
- 6) The optional add on skimmer and/or submersible pumps offer additional capabilities with a plug and play capability. Likewise the treatment systems can be simply attached.

Selected techniques can be operated simultaneously such as for example air sparging and SVE, SVE and Dual-phase or multi-phase extraction.

GRS can typically mobilise, install and commission the system within one day. The plant is designed to run automatically for 24/hr day operation.