

Remediation

Pump & Treat - Yorkshire

Ecologia applies the same level of engineering and design to its pump and treat systems that it does to other more complicated techniques such as In- Situ Radio Frequency Heating (ISRFH) of soils. The result is effective, robust equipment that requires little maintenance and is able to operate over the long periods of time often required by pump and treat systems.



Ecologia won the contract to remediate contaminated groundwater following a competitive design and build tender. Ecologia was able to provide the client with a solution that fitted the requirement of a relatively short term (1 year) discharge problem and was able to specify and build a fully automated remediation system with automated discharge monitoring.

The remediation system is capable of treating up to 11 litres per second during periods of heavy rainfall and through a mixture of gravity separation, air stripping and activated carbon filtration, the treated water can be discharged to surface waters. One key aspect, which satisfied the Environment Agency, was the inclusion of automated, continuous monitoring of the discharge for its hydrocarbon content. In combination with automated system shutdown in the event of 50% of the consent limit being reached, the telemetry system alerts the project manager by SMS so that prompt exchange of filter media can be organised.