



REMEDIAL DESIGN CHARACTERISATION (RDC)

CHALLENGE

Site investigation and accurate characterisation are the foundation of all site decisions, however multiple site investigations are often required to address data gaps.

Despite this, contamination may still be found at a later stage in the project works. Uncertainty following poor characterisation impacts on every aspect of the project, including budget, risk, remediation, environmental liability transfer and insurance.

APPROACH:

Our approach to characterisation incorporates advanced site investigation technology, with the objective of improving confidence in project outcomes and saving money over project lifetimes.

SITE CHARACTERISATION

The **conceptual site model (CSM)** is used to inform all site decisions, including the nature, extent and exposure of contamination, and development of suitable remediation strategies.

During the investigation, **real time membrane interface probe (MIP)** data is evaluated to tune the dynamic site investigation. Collaborative data sets, including real time field-based high density sampling and low density analyte-specific lab data to address

sampling and analytical uncertainty respectively.

3D-MODELLING

The data is processed into a 3D model. The model is used to determine and illustrate the spatial relations of the contamination.

In the model the geology, groundwater table and site utilities can be integrated to allow for comprehensive site overview and easier decision making.

REMEDIAL DESIGN

The remedial design is done by **calibrating the 3D model data** with the confirmatory samples, the specific remediation product and injection method.

The 3D model allows for the development of a detailed injection model, specifying injection dose rate and depth, allowing for the development of a **site-specific injection campaign**.

This approach avoids broad brush product application, minimising product wastage and reducing the overall project cost.

In this way we are able to design a strategy that supports a successful cleanup and minimises costs.

SERVICES

- Design & build services
- Process equipment
- Chemical & biological technologies
- Physical remediation

Your single source provider for remediation technologies

