CASE STUDY

REMEDX rethink remediation

Remediation works site

Multiphase extraction system housed in a container with noise-abatement features

Remediation system container

Remediating an industrial site with chlorinated solvent and hydrocarbon contamination for housing use

Background

RemedX was contacted to remediate a historically contaminated former industrial site where the contaminants included chlorinated solvents (soil, dense nonaqueous phase liquids and dissolved phase), lubricating oils (soil and light nonaqueous phase liquids), polyaromatic hydrocarbons and arsenic (soil). The site, which had recently been purchased by a property developer, was in a densely residential area.

Remediation

The key remediation requirements were for the site to be suitable for a housing end-use, early completion of the northern part of the site to enable house building to begin and minimum disruption to neighbouring residential areas.

Contaminated soil from the north of the site was transferred to a treatment area in the south for ex situ treatment to enable early handover of the first phase. The ex situ treatment of the chlorinated solvents was an innovative approach using chemical oxidants mixed into windrows of soil.

In the south of the site, in situ remediation used a high-vacuum, multiphase extraction process to remove solvents from the soil and groundwater. The process was actively managed on-site. Wells were put on stream sequentially to sweep the extraction efforts across the site. It also offered minimal ground disturbance and earthmoving in proximity to the adjacent houses.

Both remedial methods were successfully applied and validated. The end-point concentrations were significantly below the remedial targets and the time taken and the cost were substantially below the contract allowance.

For further information, please contact:

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