

## international references

SUEZ Remediation provides solutions for contaminated sites with proven and innovative treatment techniques for soil and groundwater. Strategy and design are adapted to each case. We can deploy multidisciplinary teams and mobile treatment units worldwide.

### **UCB - Le Roeulx**

Contamination: Acid tars, hydrocarbons, heavy metals, asbestos.  
Excavation, sorting and treatment of **24,000 t** of acid tars and **200,000 t** of contaminated soils

### **The Avenue project - Chesterfield**

Contamination: Tars, hydrocarbons, heavy metals, asbestos.  
Excavation, sorting and treatment of **3,500,000 t** of contaminated soils  
**450,000 t** treated in a thermal desorption plant on site, fully designed and operated by SUEZ Remediation

### **TOTAL Hub - Lacq**

Contamination: Mineral oil  
**300,000 m³** soil excavated and sorted  
**180,000 t** on site bioremediation

### **Tyre manufacturer - Poland**

Contamination: Mineral oil, PCE and hazardous waste.  
Drilling up to **80m** bgl, risk assesment, pilot tests  
**10 m³/hr** pump & treat  
**9,000 t** sorting and on-site mechanical volatilization and **17,000 t** off-site waste treatment

### **Ministry of Defense - Paris**

UXO survey and UXO clearance of a former military site. **12 ha**.  
**2988 identified targets, 22 active ammunitions destroyed** on site with bespoke protection structures

### **Defensie-Eiland - Woerden**

Contamination: Mineral oil, VOX, BTEX  
Excavation, pump & treat, in-situ chemical oxidation (ISCO), bioremediation treatment  
**260 m³/hr** pump & treat, **60,000 m³** in-situ remediation

## expertise & site assessments

### Worldwide

**Contamination:** mineral oil, VOC, VOX, PAH, heavy metals etc.

Site assessment, environmental consulting, feasibility studies, full scale or laboratory pilot tests

**Companies:** Total, Rubis, EDF, Areva, Exxon Mobil, BP, ENI etc.

## the group expert

SUEZ is an industrial group that provides environmental services and solutions to preserve resources. SUEZ has an extensive know-how in water treatment and waste recovery.

For the past 30 years, SUEZ Remediation has provided industries and local authorities with its expertise and services in a complete range of remediation activities to improve water quality and enable new land development projects to be launched.

- more than **30 years' experience**
- **400 remediation experts**
- **2 million tonnes treated / year**
- **20 treatment facilities in Europe**
- **a variety of mobile treatment units**
- **500 remediation projects /year**
- **SUEZ supports over 100 countries**

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ready for the resource revolution



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# soil remediation



# comprehensive and bespoke service for remediation of contaminated sites

## Site evaluation, Management plans & Risk Assessments

Studies including modelling and complex calculations quantify the impact of pollutants on groundwater, soil and air. Cost-effective actions are defined with environmental authorities.

## In situ & groundwater remediation services

In situ treatments do not require excavation. Combining conventional and innovative processes, some of which are patented, we can treat all types of contaminant, from hydrocarbons to perchlorates. Soil and groundwater can be restored at the same time or separately.



## Engineering and Design for large land remediation projects

When faced with complex and heavily contaminated sites, our comprehensive expertise enables us to deliver safe, reliable, high-quality services that are economical and ecological. Our fully-integrated pilot tests guarantee a successful outcome for every project.

## On-site remediation services

After excavation, soil is treated on site using a variety of methods:

- Biological treatment using biopiles
- Washing
- Thermal desorption
- Stabilisation / Solidification

We can also design, build and operate our mobile units all over the world.

Redevelopment Decontamination Recovery Protection Monitoring Advise Treatment Analysis

ready for the resource revolution



# Soil as a resource

remediation of contaminated sites

## Off-site remediation services

We provide a comprehensive solution including soil excavation and the following services:

- identifying excavated soils for cell by cell analysis
- providing temporary storage if required
- identifying the best treatment method
- managing and optimising logistics
- providing complete traceability

We operate a network of more than 20 fixed soil treatment facilities in Europe.

## Recovery

A recovery approach suits perfectly mineral materials, as it can bring financial and environmental substantial benefits, from local re-use to recycling facilities, in a controlled manner.

## Logistics & supply chain

Our specialist team optimises multimodal transport for international soil transfers and provides a complete range of services including the administrative procedures necessary for compliance with local and European regulations.

## UXO Clearance

Led by a former NATO officer, our pyrotechnical remediation department operates on both civil and military sites. It carries out geophysical surveys, manages all kinds of explosive materials, provides bespoke protection to minimise evacuation of personnel and carries out shooting range bullet recovery operations.

## Brownfields

From derelict industrial sites to real estate, we manage redevelopment projects in their entirety, including risk assessment, site remediation and property management.

