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[cdegroupp.com](http://cdegroupp.com)



# WASTE RECYCLING CONTAMINATED SOILS





# SOIL REMEDIATION

**The world's population is rising, and urban areas continue to expand into brownfield sites – places where soil contamination can pose a risk to human health or wildlife. Meanwhile, climate change is causing more floods and dust storms, moving contaminated soils into populated areas, river systems, and groundwater.**

CDE's soil remediation wash plants help our customers respond to these challenges in a sustainable manner, with greater speed and cost efficiency. That's because our integrated systems combine soil treatment processes with water recycling and advanced water treatment to clean soils and produce a range of valuable outputs.

Human activity has contaminated different soils in different ways, so CDE builds responsive plants that can adjust to treat materials on a case-by-case basis.

## **CDE's contaminated soil wash plants remove:**

- hydrocarbons such as diesel and petroleum organics
- volatile organic compounds
- semi-volatile organic compounds
- heavy metals
- PFAS
- other man-made chemicals and pesticides.

## **OUR SOLUTIONS HELP YOU:**

### **PRODUCE HIGH-QUALITY, HIGH-VALUE**

recycled sand and aggregates to replace natural materials in various construction applications such as concrete and asphalt.

### **MEET THE GROWING DEMAND**

for sand and aggregates from a sustainable source.

### **PRODUCE RECYCLED MATERIALS**

closer to urban centres, reducing your transport costs and carbon footprint.

### **REMOVE CONTAMINANTS**

that would otherwise restrict the possible applications for your recycled sand and aggregate products due to regulatory requirements, and to enable the rehabilitation of land for leisure, commercial or residential use.



# CDE SOIL WASHING PLANT

Each CDE soil washing plant is unique. We work with you to design a solution that responds to your specific requirements, site, feed materials and desired output.

Our technologies use a suite of mechanical, chemical, and biological processes to recover washed solids such as sand and aggregates, while contaminants are transferred to the water phase. The system then treats this water, ready for reuse within the system.

# ORLLATI SA BIOLEY-ORJULAZ, SWITZERLAND

Orllati was established in 1995 and has become one of Switzerland's leading construction firms. They specialise in asbestos removal, contaminated soil processing, civil engineering, concrete production, and much more. In partnership with CDE, Orllati is leading the way in creating a circular economy by treating contaminated material to create valuable resources.

In 2017, they invested in a CDE waste treatment facility for their Bioley-Orjulaz site to treat various waste streams, including contaminated soils excavated from polluted sites across Switzerland.

The facility comprises the AggMax™, AquaCycle™ and other components to treat this highly contaminated waste.

The AggMax offers superior separation of lightweight and fine particles through a series of density separation techniques. As a result, it extracts high-quality gravel and sand and a fine cake product for reuse in concrete and cement production. Meanwhile, the AquaCycle prevents water waste. It treats and recycles the water used in the washing process for re-circulation around the plant.

Orllati uses the clean output products on the treatment facility's site, reducing their transport costs and environmental footprint. In addition, the treatment facility prevents valuable products such as sand and gravel from going to landfill and reduces Orllati's reliance on virgin construction resources.





# POSILICO MATERIALS LLC

## LONG ISLAND, USA

Long Island has been plagued by pollution from toxic dumping and industrial pollution, mainly due to its proximity to New York City. This contaminated soil can affect drinking water because the three major aquifers that supply the region are close to the surface.

Posillico saw an opportunity to remove these contaminants, remediate the land, and return it to good use to meet the demands of a growing population.

Together, Posillico and CDE designed and installed an innovative wet processing recycling solution – the first of its kind in North America. It removes contaminants while producing high-quality washed construction sand and aggregates.

**“This is really a one-of-a-kind operation that can take so many different varieties of soil and run them through the same plant.”**

**Michael Posillico,  
Materials Division Manager,  
Posillico Materials LLC**

