



making the world  
a greener place

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Integration of  
**arvOX** into soil remediation facilities

# One of the greatest environmental problems world-wide is the contamination of soil by oil and other pollutants. With arvox, Arva Greentech offers a unique process for the environmentally neutral degradation of hydrocarbons.

## FIELDS OF APPLICATION

### Soil remediation facilities

Arvox is very well suited for the decontamination of soils, gravel and other substrates that are contaminated with hydrocarbons.

The process can be integrated into the process of chemical-physical or biological soil treatment facilities without major technical effort.

## CONTAMINANTS

### Spectrum of treatable pollutants

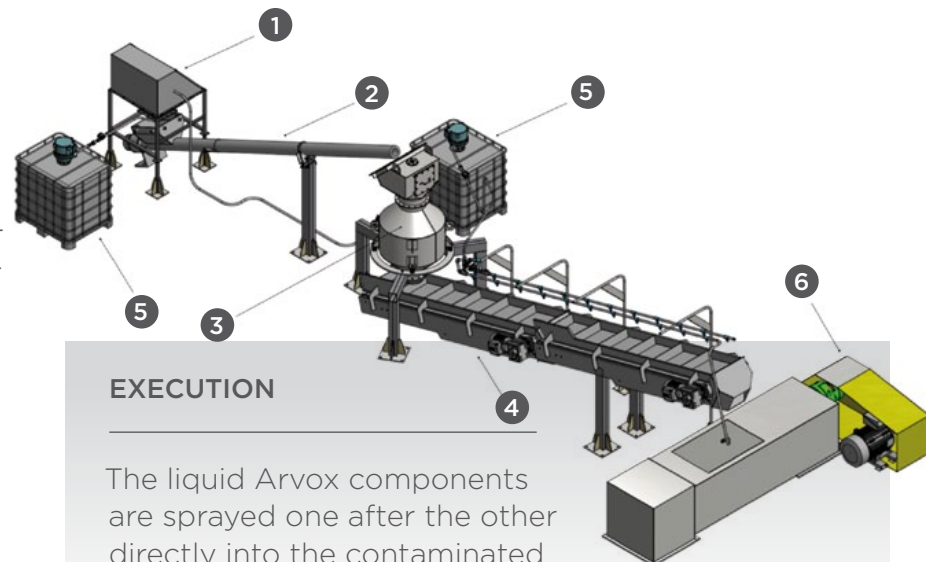
Arvox destroys most hydrocarbon compounds, especially petroleum hydrocarbons, BTEX, PAH, as well as glyphosate and other herbicides.

## THE METHOD

### Arvox - patented superoxidation

Arvox works with two liquid components (Arvox A + Arvox B). Their reaction generates oxygen radicals that degrade organic pollutants quickly and efficiently. The reaction produces environmentally neutral end products - mainly water, oxygen and sodium carbonate.

The Arvox reagents are sprayed onto the contaminated excavated material during treatment. The process can be repeated, depending on the degradation targets. The microbiology of the soil remains unchanged.



- 1 Belt feeder
- 2 Spiral classifier for sand washing
- 3 Screen shaker
- 4 Belt conveyor
- 5 Injection system
- 6 Two-shaft mixer

## ADVANTAGES

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### Economical

- Easy application leads to cost advantages
- Combination with other cleaning methods leads to better degradation results
- Disposal in landfills is made cheaper

### Fast

- Arvox works immediately. The reaction only takes a few minutes to hours
- Pre-treatment with Arvox significantly reduces degradation times for biological treatment

### Efficient

- Reliable strong reduction of contamination in soil and gravel
- Arvox reduces pollution to a level that cannot be achieved with conventional treatments

### Green

- 100% eco-friendly. The end products are bio-degradable
- Increased bioavailability of residual contaminants

## TECHNICAL INSTALLATION

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### Easy integration

- Application of liquid reagents via spray nozzles
- Uncomplicated and fast installation of the spraying points in existing facilities
- Flexible supply of Arvox components via hoses and pumps from mobile containers (IBCs)
- Mixture and quantities of reagents precisely adapted to contamination and quantities of the contaminated substrate
- Delivery of the reagents in a ready- to-use mixture directly to the place of application
- Spray system can remain in the facility without restriction of other operations

### TIME OF APPLICATION

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- Depending on the degree of contamination and the degradation targets, one to three spraying processes will be conducted



*Spray nozzles above the conveyor belt wet the substrate*

*Videodocumentation*

**[www.arva-green.tech](http://www.arva-green.tech)**



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