



Leachate Water Treatment

Our Leachate Water Treatment Systems are passive flow through systems designed to remove heavy metals, hydrocarbons and inorganic anions. (Such as Arsenate and Chromate)

They are based on experience of treating landfill leachates and ground water remediation at over 49 sites in Sweden, USA and the UK.

Based on flow through media such as manmade zeolites, peat and activated carbon.

General Problems encountered in Leachate Water Treatment are;

- **Solids**
- **Organics: BOD (Sugar, organic acids etc), Oil, PAH, BTEX, PCB**
- **Metals: Zn, Ni, Cd, Cr, Pb, Hg, Fe, Mn, Cu**
- **Complexes and others: As_v, Cr_{VI}, Fe-CN, Mo, Th, U, Cu, Zn, Ni, TBT**

The issues highlighted in red can be treated directly by passive absorption. The others require mechanical or biological additional steps.

Main Benefits of a Passive System:

- Passive; no dosing, no moving parts, just a pump required, meaning little or no maintenance and low labour costs
- Requires no continuous chemical dosing, therefore less to go wrong
- Simple and easy for operators to handle
- Robust and compact so it can be used in remote areas, and is highly mobile
- Can be containerised; so no need for expensive civil installation

Modular System

Pictured right is a passive flow-through modular system based on ion exchange.

The system to the right was designed to handle 100m³/h.



Containerised System

For areas with cold climates we supply containerised systems which can be fully insulated and heated.

