

## Dissolved Metals Removal Technology

Siltbuster Limited, through its' subsidiary Unipure Europe Limited, offers expertise in the design, fabrication, installation and commissioning of treatment plants for the removal of heavy metals and other contaminants.

### High Density Sludge (HDS)

Particular expertise lies in the use of the HDS Process for the treatment of waste waters containing high concentrations of one or more metals.

Unlike conventional hydroxide precipitation plants, metals removal is undertaken in 2 stages specifically designed to produce a high density sludge which settles to a high solids concentration.

### The Siltbuster HDS Process

- Uses commercially available chemicals rather than expensive propriety compounds!
- Enables solid/liquid separation to be achieved in a Lamella Clarifier which reduces the plant footprint
- Produces a sludge which dewateres to between  $\frac{1}{3}$  and  $\frac{1}{2}$  of the volume produced by conventional precipitation
- Offers significant savings in sludge disposal and operating costs

### Site Pilot Trials - on a sensible scale!

Getting to grips with your heavy metals problem couldn't be easier thanks to our experience and extensive hire fleet of mobile solids/liquid separation equipment.

Everything required to undertake a pilot trial at your site is available from our hire fleet including: chemical dosing systems, reaction tanks, mobile lamella clarifiers, sludge storage tanks, deep cone thickeners, dewatering presses and a dedicated containerised HDS Pilot Plant - all available from our hire fleet.

### Why choose Siltbuster for Dissolved Metals Removal Plants?

With over 20 years experience in environmental engineering, minewater treatment, metals removal plants, process engineering, procurement, project management and civil engineering and our own in-house laboratory, Siltbuster Limited offers a complete metals removal service ranging from feasibility and design studies through to installation, plant commissioning, operation and management.



**“In March 2007, our HDS Plants treated over 1 million cubic metres of water removing over 150 tonnes of heavy metals that would otherwise have been released to the environment.”**