

VETIVER SYSTEM FOR LANDFILL LEACHATE DISPOSAL

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Australia Leachate after rain on the side slope of an old municipal landfill



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Australia This leachate runoff is highly contaminated with Chromium, Cadmium, Copper, Lead and Zinc. It will eventually run into a nearby creek



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Australia Within a year vetiver has completely stopped the leachate seepage



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Australia Vetiver planting on the top surface of a landfill mound and irrigated with leachate collected at the bottom of the mound



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Australia

One year after planting



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China

The DATIANSHAN landfill was built in 1985, it has a surface area over 23ha and currently takes 2500t of rubbish a day from Guangzhou City. Vetiver was planted on the dam wall to control leachate leaking out.



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China

Six months after planting



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China

Vetiver has dried up leachate seepage on the dam wall, no need for seepage drains!



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China

Vetiver thrives on the highly polluted leachate



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SMALL RURAL RUBBISH HEAPS CAN BE STABILIZED WITH THE VETIVER SYSTEM



In Morocco this village rubbish heap was covered with soil (above) and planted with vetiver (top right). Bottom left shows the roots growing into the rubbish. Using vetiver for this purpose prevents disease, leachate flows, and bad smells. Note how green the vetiver is compared to the native species nearby



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