



## TESTIMONIALS

Virotec has developed a range of breakthrough technologies in response to the demand for new and practical solutions to tough environmental problems. These technologies – which have been used to treat highly contaminated wastewater, sludge, waste rock and soil – have been successfully applied in industries as diverse as mining, electroplating, aquaculture, sewage treatment and timber preservation.

Below are extracts from just some of the testimonials we have received from companies and government bodies who have implemented Virotec technologies. The complete testimonials and case studies for all of these applications and projects can be found on our website [virotec.com](http://virotec.com)

### **VIROMINE™ TECHNOLOGY** *Mining waste treatment and site remediation*



> *Fox Resources, Western Australia, Australia*

#### **ViroMine™ - Treatment of contaminated Tailings Dam**

“...Virotec offered a quick response time and a quick treatment time. They provided an interim solution to our problem, and I would recommend the use of ViroMine™ Technology to any company that has similar requirements.”

**Mark Eccleston - Safety, Health and Environment Manager**



> *Gilt Edge Mine, South Dakota, USA*

#### **ViroMine™ - Remediation of waste rock dump, acid mine drainage and tailings.**

“EPA’s findings to date indicate that ViroMine™ reagents may have several potential applications at Gilt Edge and possibly at other mine sites...”

**Ken Wangerud, Remediation Project Manager, US EPA Region 8**



> *Highway Construction Wastewater Treatment, Cheongju City, South Korea*

#### **ViroMine™ - Treatment of acidic metal-contaminated water using Acid B™ pellets**

“The ViroMine™ Technology filtration system containing Acid B™ pellets continues to successfully treat the long-term acid and heavy metals being generated from the Cheongju City highway construction site...”

**Dr Jeongyul Suh, Chief Executive Officer, Geovirotec Co. Ltd.**



> *King River Delta, Tasmania, Australia*

#### **ViroMine™ - Treatment of acidity and heavy metals in tailings using Terra B™**

“Many attempts have tried and failed to treat the contaminated tailings in the King River. ViroMine™ Technology was extremely successful, indeed the only demonstrably successful treatment we implemented.”

**Andrew Laird, West Coast Council, Project Coordinator**



> *Mine Site, Ulsan, South Korea*

#### **ViroMine™ - Remediation of an Iron Ore mine site.**

“Without the addition of Neutra B™ reagent, this project could not have proceeded as there was no other technically or commercially viable option available in Korea.”

**Dr Jeongyul Suh, CEO, Geovirotec Co Ltd**

## **VIROFLOW™ TECHNOLOGY** *Industrial wastewater and solids treatment*



> *Australian Paper, Tasmania, Australia*

### **ViroFlow™ - Treatment of mercury contaminated water using ElectroBind™.**

“ViroFlow™ Technology has alleviated a problem that had existed in our plant for over ten years... (it) effectively removed the mercury containing compounds from our storage vessel, enabling discharge to marine waters.”

**Karen Pascoe, Environmental Co-ordinator, Australian Paper – Tasmanian Mills**



> *Birdsall Leather, New South Wales, Australia*

### **ViroFlow™ - Treatment of chromium rich tannery effluent using ViroChrome™.**

“The use of ViroFlow™ Technology has resulted in all parameters being below the discharge requirements for SydneyWater. We have also found that the odour generation from our wastewater system is considerably less...”

**Ian Diver, Operations Manager, Birdsall Leather and Crafts**



> *Blaney Treated Pine, New South Wales, Australia*

### **ViroFlow™ - Treatment of CCA leachate pond using ViroBond™.**

“Blaney Treated Pine was in urgent need of a solution for our contaminated leachate pond. Virotec treated the leachate pond within two weeks. The treated water quality had CCA metal levels below the required NEPC (1999) Guidelines for Contaminated Sites...”

**Michael Robertson, Managing Director, Blaney Treated Pine**



> *Civil, Mining and Construction, Queensland, Australia*

### **ViroFlow™ - Treatment of hydrocarbon sludge using ViroFlow™.**

“Approximately 25,000 liters of highly contaminated hydrocarbon sludge found in an underground tank required treatment. Virotec offered a simple solution with treatment being completed within 4-5 weeks and meeting the EPA guidelines for disposal to landfill. We have no hesitation in commissioning Virotec Global Solutions for any hydrocarbon contaminated soil services in the future.”



> *CP Plating, Queensland, Australia*

### **ViroFlow™ - Treatment of electroplating wastewater using Electrobind B™ reagent.**

“...As a result of implementing ViroFlow™ Technology, CP Plating is now in a position to recycle the water used in the electroplating process. CP Plating is using Virotec's ViroFlow™ Technology on a permanent basis and are achieving consistently excellent results...”

**Chris Burgess, Managing Director of CP Plating**



> *Excellent Plating Works Pty Ltd, Australia*

### **ViroFlow™ - Treatment of electroplating wastewater using ElectroBind™.**

“As a result of implementing ViroFlow™ Technology, EPW are now in a position to recycle water with the electroplating process. As an added bonus, the filter cake leachate performance allows cheaper disposal options for the dry discharge. EPW are now using ViroFlow™ Technology on a permanent basis.”

**Pat Aughterson, Managing Director, Excellent Plating Works Pty Ltd**



> *Koppers Wood Products, Tasmania, Australia*

### **ViroFlow™ - Treatment of CCA contaminated water using ViroBond™.**

“Levels of metals in these ponds were reduced dramatically and well below our licence limits... I would have no hesitation in recommending Virotec to any other company either with environmental problems or a commitment to improving current practices.”

**Andrew Exton, Operations Manager, Koppers Wood Products**



> *Origin Alliance, Brisbane, Queensland, Australia*

**ViroFlow™ - Treatment of heavy metal wastewater using ElectroBind™.**

“To treat approximately 1,000,000 liters of heavy metal contaminated groundwater from underground mine shafts, Virotec introduced us to their ElectroBind™ product. It reduced the metals to well below the EPA requirements for disposal/reuse and was far more cost effective than chemical dosing as the addition rate was much smaller. We would recommend other companies to use Virotec Global Solutions for any heavy metal contaminated water issues.”



> *Queensland Rail, Jilalan Rolling Stock Maintenance Depot, Australia*

**ViroFlow™ - Treatment of industrial wastewater using ElectroBind™ reagent.**

“Implementation of ViroFlow™ Technology on a permanent basis has resulted in compliance with all EPA discharge standards. The clarity of the treated water produced has been extremely good, and markedly better than our previous system...Queensland Rail are happy to recommend Virotec for any similar industrial projects involving heavy metals, suspended solids, BOD and nutrient removal.”

**Ian Boles, Operations Manager, Jilalan Rolling Stock Maintenance Depot**



> *Tasman Sheepskin Tannery, Queensland, Australia*

**ViroFlow™ - Treatment of tannery wastewater using ViroChrome™.**

“Chromium levels dropped to well below regulatory limits... and there was substantial odour reduction.”

**Peter Moffat, Manager, Tasman Sheepskin Tannery**

**VIROSEWAGE™ TECHNOLOGY** *Municipal wastewater and biosolids treatment*



> *Kilcoy Shire Council, Queensland, Australia*

**ViroSewage™ - Treatment of municipal sewage.**

“The implementation of ViroSewage™ Technology resulted in significant improvements in removal of phosphorous, nitrogen, suspended solids and biochemical oxygen demand... (and) there was substantial odour reduction.” **MJ Hilton, Chief Executive Officer, Kilcoy Shire Council**



> *QORS, Queensland, Australia*

**ViroSewage™ - Treatment of leachate collection ponds to reduce objectionable odour and meet EPA standards.**

“On a scale of ‘0 to 10’ (with 10 being the most objectionable odour), the EPA officer rated the odour generation from the leachate ponds to be ‘0’ (zero), with no detectable odour (after treatment)...”

**John Hindmarsh, Director, Queensland Organic Recycling Systems**

## VIROSOIL™ TECHNOLOGY *Contaminated site remediation and soil treatment*



> *Club Pelican Golf, Queensland, Australia*

**ViroSoil™ - Treatment of scalded fairway suffering from acid sulphate soil problem.**

“It is clear that the ViroBind™ treatment effectively remedied the scalds and the Riley’s Super Sport Couch fairway grass has fully regrown, with no acid scalds reappearing...”

**Ben Marshall, Head Groundskeeper, Club Pelican Golf**



> *Civil Mining and Construction Pty Ltd, Queensland*

**ViroSoil™ - Treatment of hydrocarbon sludge.**

“Virotec Global Solutions were contracted to treat approximately 25,000 liters of highly contaminated hydrocarbon sludge found in an underground tank. The solution they offered was very simple with treatment being completed within 4-5 weeks and meeting the EPA guidelines for disposal to landfill. We were satisfied with their performance and would have no hesitation in commissioning Virotec Global Solutions for any hydrocarbon contaminated soil services in the future.

**Rod Woodrow, Project Manager. Civil, Mining and Construction Pty Ltd**



> *Gladstone Port Authority, Queensland, Australia*

**ViroSoil™ - Treatment of sulphidic marine clay and dredge spoil.**

“The Virotec total solution proved to be innovative, efficient, effective and immediately applicable during the treatment of the accumulated sulphidic marine sediment...”

**Gladstone Port Authority, Kilcoy Shire Council**



> *Tomei Australia, Queensland, Australia*

**ViroSoil™ - Remediation of acid sulphate soils in prawn ponds using ViroBind™.**

“The Virotec treated pond has yielded a rate of around four times that of the next best harvest from that pond...”

**Thorbjorn Lyster, Operations Manager, Tomei Australia Pty Ltd**



> *Tryton, New South Wales, Australia*

**ViroSoil™ - Use of ViroGrow™ as an additive in fertiliser for use in contaminated soils.**

“The Tryton products we are using ViroGrow™ in have gained significant agronomic benefits. We are now able to market our products for new applications...”

**David Hundt, Chief Executive Officer, Tryton**



> *WestRock Developments, Queensland, Australia*

**ViroSoil™ - Treatment and remediation of heavy metals contaminated soil using ViroBind™ reagent.**

“...ViroSoil™ Technology process successfully immobilised the heavy metals, allowing for safe and economic disposal into landfill... I have no hesitation in recommending Virotec for any soil remediation project and look forward to working with Virotec in the future on other similar projects.”

**John Delany, Director Westrock Developments**

See full testimonials and all case studies at [virotec.com](http://virotec.com)