



RESPEC + WATERSTRIDER

SITE-SPECIFIC, LOW-INPUT MINE WATER TREATMENT SOLUTIONS



MEETING THE PRESSURES OF MODERN MINE WATER MANAGEMENT

Mining operators face stricter discharge regulations, rising ESG expectations, and persistent contaminants like selenium, arsenic, cadmium, nitrate, and sulphate. Legacy systems often fall short, driving higher costs, complex operations, and billion-dollar remediation risks.

Operators don't need more complexity. They need a system that adapts to site-specific conditions while cutting input costs and compliance risks.

A PARTNERSHIP BUILT FOR SITE-SPECIFIC MINE WATER MANAGEMENT

With RESPEC and waterStrider, you get the best of both worlds: RESPEC's decades of experience designing and implementing large-scale water treatment systems across North America — including remote and hostile-climate mine sites — combined with waterStrider's breakthrough technologies. Together, the partnership integrates physical, chemical, and biological approaches into site-specific solutions that meet today's toughest mine water management challenges.

**Decades of
experience**

**Breakthrough
technologies**

WHAT THIS MEANS FOR YOU

With RESPEC and waterStrider, you get mine water management solutions that are proven in the lab, engineered in the field, and built around your site's needs.

PROVEN BENEFITS FOR YOUR OPERATION



Lower Operating Expenses

Remote treatment systems cut costs and reduce operator requirements



Stay Compliant

Proven to meet strict Canadian and U.S. standards



Smaller Waste Streams

Up to 90% less volume, with stable, non-leachable solids



Strengthen ESG Outcomes

Safer for communities while sequestering carbon

THE PROOF BEHIND THE PROMISE

Independent third-party testing confirms waterStrider's technologies consistently deliver high removal rates of regulated contaminants:

↓% **Selenium**
>99.8%

↓% **Arsenic**
>99.9%

↓% **Cadmium**
>99.9%

↓% **Nitrate**
78.8%

↓% **Sulphate**
75.5%

Results meet or exceed Canadian and U.S. discharge standards, giving operators confidence and regulators peace of mind.

INTEGRATED MINE WATER TREATMENT SYSTEMS



AMPREY™ CONTAMINANT REMOVAL

- » Removes up to 99.9% of metals, with exceptional results for difficult contaminants: selenium, arsenic, cadmium, molybdenum, nitrate and sulphate
- » Produces small quantities of stable solids instead of requiring massive sludge ponds
- » Reliable even in freezing conditions



MISTY CO₂™ WATER CONDITIONING

- » Captures CO₂ from exhaust to neutralize highly alkaline water
- » Achieves precise pH control safely, replacing hazardous acids
- » Carbon capture technology cuts costs and supports sustainability



LOW-INPUT BIOLOGICAL TREATMENT ADAPTIVE PROCESSES

- » Uses biologically driven processes tailored to site-specific geochemistry
- » Complements physical-chemical systems for more adaptive treatment
- » Expands options for sustainable water management strategies

CONTACT US



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