



Rehabilitation
Reclamation
Recovery

HYDRAULIC MINING



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VERSION 0

Our Capability

XR3 has the equipment and in-house expertise to deliver cost-effective and environmentally sustainable hydraulic mining solutions.

The equipment is ideally suited to:

- Tailings reclamation of polymetallic or coal tailings storage facilities
- Mineral sand mining
- Mining of other soft deposits; laterites, alluvials, clay
- Clean-up of dams, collection ponds, creeks

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A single water cannon is able to mine from **50 to 400t/h** depending on the required application
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We specialise in Hydraulic Mining techniques, providing a process that ensures:

- Improved resource utilisation
- Cost-effective remediation of environmental liabilities
- Potential funding through government incentive schemes
- Re-use of tailings storage facilities
- Safety, cost and environmental advantages over other methods
- Minimal interaction with operations
- Telemetry to monitor tonnages and densities
- Consistent production tonnage and density to client specification
- Automated control loops to ensure stable and consistent tonnage output
- Our technical service can be utilised to determine project feasibility and ensure scope and requirements are understood early

The Equipment and Process

Hydraulic Canon/Water Monitor

Track-mounted, remote operated water cannons project a high-pressure jet of water to the target material in planned sections.



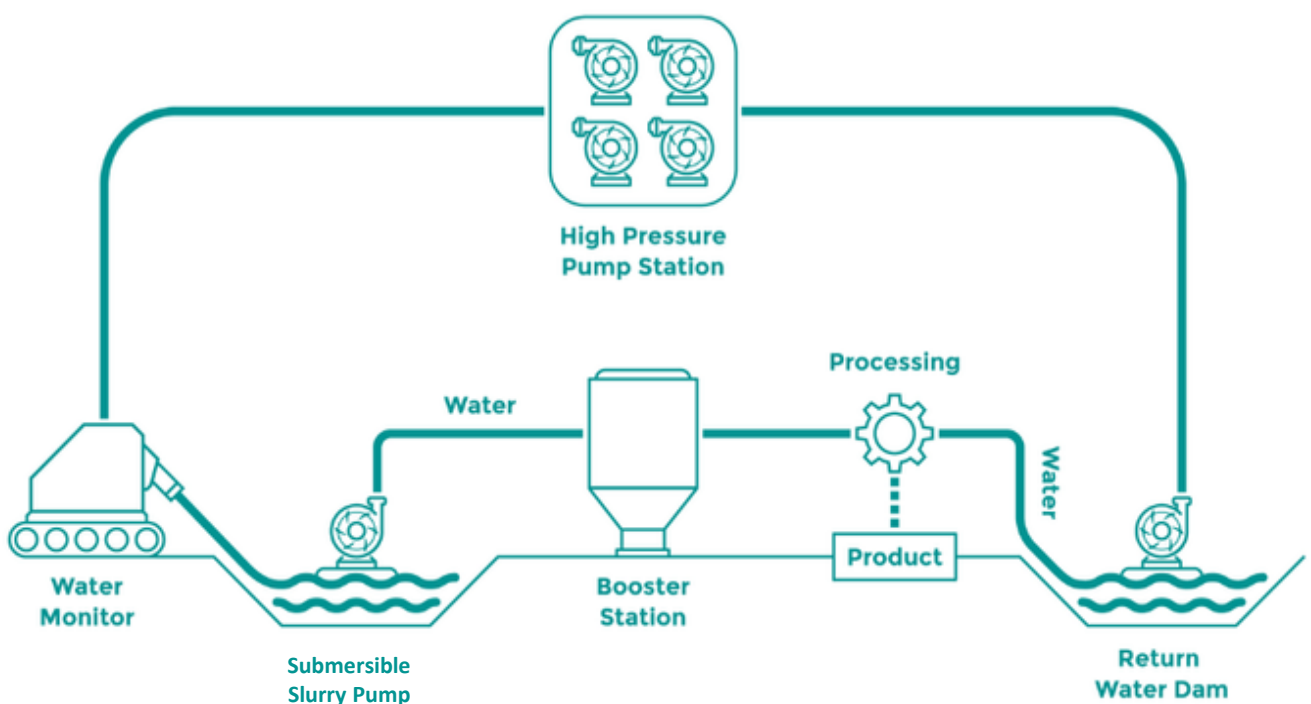
Submersible Slurry Pump

The resulting slurry gravity feeds to a collection sump.



Slurry Booster Station

Slurry is sent to the processing plant via two sequentially staged slurry booster pumps.





Why XR3?

01 Full Turnkey Solution

Full life of project support from feasibility and scoping to project management of design, construction and operation.

02 Tailored Assessment

Geotechnical, hydrology and geochemical assessment in conjunction with mine planning to ensure safe, efficient operation.

03 Specialist Team

A unique combination of technical specialists, hydraulic mining expertise and deep mine site operational experience.

04 Partnerships

Our strong partnerships with processing specialists enable the design and operation of complete end-to-end mining and processing solutions.

05 Hybrid Solutions

Hybrid solutions incorporating load and haul operations can be provided.

Safety and Efficiency

- Hard barricades are installed to prevent access to the water jet during operation
- Cannons are operated by remote control to remove operators from the line of fire
- High production rate minimises unit cost per tonne
- The water monitors can be operated in a duty-standby arrangement to minimise lost time during cannon services and relocations



If you're looking to experience innovation and excellence at your business, get in touch with us today.

Contact Us

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