



Rehabilitation  
Reclamation  
Recovery

# HYDRAULIC MINING

Capability Statement

# Our Capability | *hydraulic mining*

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**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

Our technical service can be utilised to **determine project feasibility** and ensure **scope and requirements** are understood early

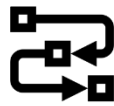
**We specialise in Hydraulic Mining techniques, providing a process that ensures:**

- 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

## Hydraulic Mining how it works



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



The resulting slurry gravity feeds to a collection sump for pumping to a nearby booster station and onwards for processing



The water monitors can be operated in a duty-standby arrangement to minimise lost time during cannon services and relocations

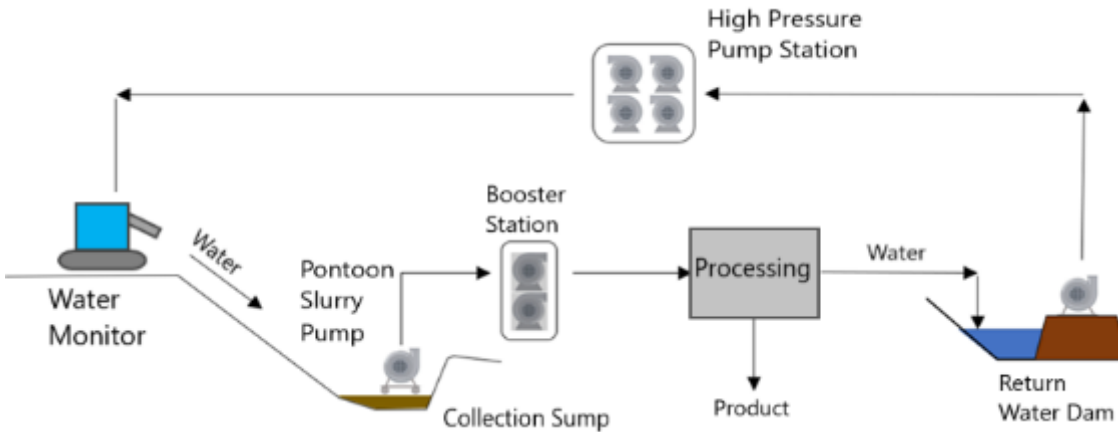


**Safe** - Hard barricades are installed to prevent access to the water jet during operation. Cannons are operated by remote control to remove operators from the line of fire



**Efficient** - High production rate minimises unit cost – a single water monitor is able to mine from 50 to 500t/h depending on the required application

# Hydraulic Mining | *the process and equipment*



- Our equipment is customised for each project to deliver the optimum mining solution
- We can provide all the necessary equipment for your specific application

Water Monitor

Pontoon slurry pump

Screening and booster station

# Hydraulic Mining | *XR3 capabilities*

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

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

A **unique combination** of **technical specialists, hydraulic mining expertise** and deep **minesite operational experience**

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

**Hybrid solutions** incorporating load and haul operations can be provided



