



Mine Backfill

Paterson & Cooke is a global leader in the design, execution, and operational support of mine backfill systems. Since 1991, our engineers have tackled some of the most complex backfill challenges, successfully designing and implementing hydraulic, paste and CRF/CAF projects all over the world.

Our dedicated international group, made up of engineers, operators, technologists and specialists, allows us to coordinate expertise and resources across all our offices to best serve our clients wherever they may be. P&C is also not tied to any specific vendor equipment thus enabling us to deliver the best fit-for-purpose designs.

Our Capabilities - From Concept to Execution

- P&C is in the unique position to be able to conduct all backfill test work at our own laboratories, giving us full control over sample integrity and data quality.
- Our engineering study services extend from early concept through to feasibility and bankable-level studies. We deliver practical designs backed by accurate cost estimates to support confident decision-making.
- Once a project proceeds to implementation, we provide full detailed engineering. We can also prepare all necessary construction specifications and drawings, as well as provide assistance with significant equipment purchases and the appointment of contractors.
- P&C's experienced operations team supports both our own or third-party backfill system designs during construction and commissioning. We endeavour to build long-lasting relationships that extend beyond the first successful delivery of backfill underground.
- Our engineers optimise stope-specific backfill strength requirements, provide bespoke containment (wall or rock-berm) designs and are leaders in the use of instrumentation to safely optimise efficient backfill placement.
- P&C provides backfill management planning systems and technologies, supporting clients' operations with procedures, guidelines, and performance improvement strategies to maximise system function and safety.
- For clients with existing backfill systems, P&C can further add value through performance benchmarking, reticulation system extensions, downtime diagnostics, backfill plant expansion projects, and other tailored optimisation solutions.

Our People

Drawn from a wide range of academic and operational backgrounds, we are mining and process experts, hydraulics and pipe wear specialists, cement chemists, and mechanical and geomechanical engineers. Our strength lies in the intellect, commitment and creativity of all who work at P&C.

We have the skills and experience to take a project from concept development to commissioning, and from the surface mill discharge to the containment wall underground.

Our backfill capability is driven by a dedicated, experienced team that focuses on innovative, reliable solutions and who are backed up by collaboration across all the disciplines that P&C offers.

Projects

We bring decades of global expertise, having successfully delivered hundreds of backfill projects across 20+ commodities in over 40 countries. Please contact our local office for a full reference list relevant to your particular requirement.



Group Capabilities

- Tailings & Mine Waste
- Long-Distance Pipelines
- Mine Backfill
- Mineral Processing
- Mine Services
- Bulk Water Supply
- Dredging & Marine Pipelines
- Laboratory & Test Work
- Engineering Services

Contact Us

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