

Pumping & Dewatering

consulting, technical expertise, & project management for pumping systems



Expertise

comprehensive field surveys & condition assessments
designs, reviews, CAPEX OPEX estimates
tender specifications - create, evaluate, review
troubleshooting & root cause failure analysis
reliability & MTBF improvement solutions
training for engineers, operations, maintenance
project & construction management
commissioning, start-up, & field technical support



Mining

open pit dewatering - pipelines, ramp, new construction
surface pumping systems - pipelines, water supply, tailings
mill process - slurry, low pH, froth, wear, air entrainment
underground - shaft, face, sumps, raise bore water & slurry
treatment - sedimentation tanks, weir tanks, polishing



Municipal

plant & lift station inspections & risk assessment
contingency plan designs for failures & flooding
temporary bypass pumping specifications & designs
treatment, process, lagoon, clarifier, lift stations

Construction

river bypass, bridges, culverts, open cut, wellpoints
site dewatering & treatment, silt, dredge slurry transfer
MTO / MOE / DFO in water work
engineered & stamped river diversion bypass designs
coffer dam designs, geo tubes, aqua dams
geo-technical reviews for groundwater dewatering

Turn-Key

Design - Supply - Install - Commission

temporary bypass pumping & dewatering solutions
permanent process pumping systems

Equipment Supply

sales & service of pumping equipment, from simple supply to complete systems



- pumps, valves, hose, piping, fittings
- mining hose – slurry, bull, air, hydraulic
- bypass pumping pipe manifolds
- dams, fish screens, winterization, spill containment
- weir & clarifier tanks
- upgrades, rebuilds, site services, packaged systems



General Services

project, shutdown, temporary, contract, loan agreement



- local technical, field support, and professional services for manufacturers, OEM's, contractors, engineering firms, & end users
- project supervision & management
- mechanical maintenance planning & supervision
- mechanical maintenance shutdown assistance
- mechanical reliability & root cause failure analysis
- Mechanical Engineering Technologist