



*Add value  
to your operation.  
Add confidence to  
your investment  
decision.*


**Xenith**

## INFRASTRUCTURE AND PROJECT MANAGEMENT



Project, Concept & Feasibility Studies  
Resource Evaluation & Geological Modelling  
Operations Planning, Design & Scheduling  
Due Diligence & Technical Reviews  
Coal Industry Consulting  
Valuation & Corporate Advisory  
Metals & Minerals Industry Consulting  
Business Optimisation, Financial Modelling & Cost Review  
Infrastructure & Project Management  
Exploration Management  
Land Rehabilitation  
Environment & Approvals

# INFRASTRUCTURE AND PROJECT MANAGEMENT



XENITH PROVIDES A FULL MULTI-DISCIPLINARY CONSULTING SERVICE FROM RESOURCE TARGET GENERATION AND EXPLORATION MANAGEMENT THROUGH TO GEOLOGICAL MODELLING, MINE OPERATIONAL SUPPORT, FEASIBILITY STUDIES AND DETAILED MINE PLANNING, INCLUDING SPECIALIST FINANCIAL ANALYSIS, INFRASTRUCTURE DESIGN AND CORPORATE ADVISORY FUNCTIONS.

**Xenith's infrastructure team delivers solutions for the mining, energy and industrial sectors, from due diligence and technical expert reports, all level of studies, through to the management of detailed design, project management and construction management services.**

## Expertise

Our team offers expertise across all areas of on-site and off-site infrastructure, materials handling and processing.

The strong point is our infrastructure capability which includes:

- civil works including bulk earthworks, detailed earthworks pads, pavement design, roads of all types (heavy and light vehicle with associated drainage), plus flood levees and dams,
- mine industrial area layout and design (workshops, warehouse, administration offices, fuel and lube facilities, truck wash bays, tyre change),
- mine construction camp and village,
- water supply and reticulation,
- surface runoff and collection,
- flood management,
- power supply and distribution,
- rail spurs and loops,
- mine construction camp and village,
- and capital and operating cost estimation.

Our materials handling and processing expertise includes:

- crushing, screening and conveying
- stacking, stockpiling, reclaiming and train loading.

Our team are qualified in engineering and design for:

- civil, structural and geotechnical
- mechanical, materials handling, electrical and controls.

## CASE STUDY

Recently, Xenith Consulting has been engaged to undertake the entire scope of concept and pre-feasibility studies for greenfield Australian mines, both coal and metals. Studies have been undertaken by a fully integrated Xenith team covering infrastructure, materials handling and processing plant, power and water supply as well as infrastructure expansions and relocations. Significant surface water management and flood inundation mitigation work was also undertaken during the studies.

Capital and operating cost estimates were developed by Xenith, as well as full financial models of the development and operation of the mines. The outcome of the studies was a saving in cost and time whilst generating highly regarded study reports for potential investor reviews due to the specialist and integrated approach taken by Xenith.

