

Projects



Resource Development
Consultants



Wodgina Cyclone Refuge Project

Talison Minerals

Feasibility Study; EPC Contractor

MSP completed a feasibility study, and subsequently undertook detailed design and construction of a cyclone refuge for Talison Mineral's Wodgina tantalite expansion.

This state of the art facility was completed within the \$1.0m GMP contract.



Wodgina North Camp Expansion

Talison Minerals

Feasibility Study; EPC Contractor

MSP completed a feasibility study and subsequent detailed design and construction for the expansion of Talison Mineral's Wodgina North Camp and associated amenities.

The project was completed within the \$ 2.2m GMP contract value.



Tallering Peak Camp Expansion

Mount Gibson Iron

EPCM Services

MSP were engaged by Mount Gibson Iron to provide engineering, procurement and construction management services for the \$4.3M expansion of their Tallering Peak camp and associated infrastructure.

The project included the upgrade and installation of accommodation, mess facilities, power supply, communications and waste water treatment facility



Wodgina Cyclone George Remediation

Sons of Gwalia

Project Management

MSP were commissioned to provide Sons of Gwalia engineering, project management and site supervision services for the reinstatement of Wodgina's tantalite plant and associated infrastructure damaged by Cyclone George. This project included the preparation of insurance documentation.

The rectification works were completed substantially below the \$7.4m budget.



MSP Engineering Pty Ltd
Resource Development Expertise
Camps, Villages & Remote Area Infrastructure

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RESOURCE COMMODITY EXPERTISE

Industrial Minerals

Mineral sands
Tantalite
Tin
Silica sands
Salt
Graphite
Manganese

Precious & Base Metals

Gold
Silver
Nickel
Copper

PROCESS EXPERTISE

Crushing & grinding circuits
Material handling systems
Recovery circuits including gravity & cyanidation
Flotation circuits
Hydraulic transportation
Plant upgrades & expansions

INFRASTRUCTURE EXPERTISE

Remote area housing & camps
Mine site infrastructure
Power stations
Pump stations
Air strips & wharfs
Cyclone refuge shelters
Waste water & sewerage systems



Resource Development Consultants

Previously known as McSweeney Partners Pty Ltd, with over 40 years experience as a leader in its field, **MSP** has established a reputation of providing simple, innovative and cost efficient solutions that successfully deliver projects which consistently exceed client expectations and performance targets.

MSP has a state of the art office facility with dedicated professional and para-professionals including process, mechanical, structural, civil and electrical engineers, design managers, draftspersons, project managers, construction managers and supervisors, and project controllers.

MSP's delivery of services is characterised by a:

- Collaborative approach with valued clients based on its years of experience in the resources industry.

MSP Engineering is a Western Australian based resource development consultancy specialising in the evaluation, engineering design, project management and construction of minerals processing facilities and associated infrastructure, both in Australia and overseas.

- Capability to mould the engineering and project delivery models to meet the Client's time, quality & cost expectations
- Project management systems and personnel with a culture that supports an Integrated owners team approach, or the provision of total turnkey solutions through Lump Sum, Guaranteed Maximum Price or EPCM project delivery models.

In the past 10 years **MSP** has provided over \$ 300 million in project studies and evaluations, project management and engineering services to its Clients.

These projects have been completed within tight schedules and budgets in accordance with its client's expectations.

MSP'S KEY CAPABILITIES

Project Studies and Evaluations

Conceptual scoping studies
Pre-feasibility studies
Bankable feasibility studies
Definitive feasibility studies

Engineering Design

Metallurgical & chemical process engineering design
Mechanical engineering design
Civil engineering design
Structural engineering design
Electrical & instrumentation engineering design

Project Management

Engineering design management
Integrated owners team representation
Construction management
Commissioning & training
Health, safety & environmental management
Estimating & scheduling
Procurement, expediting & logistics management
Project costs & contracts management
Risk management
Quality management systems

Design and Construction

Lump Sum, Guaranteed Maximum Price & EPCM



Camps, Villages & Remote Area Infrastructure

MSP has extensive experience and expertise in the design and construction of camps, villages and remote area infrastructure to the mining and resources sector both in Australia and overseas.

MSP's projects have included:

- Remote area camps and villages from 10 – 300 man facilities including messing, administration and recreational facilities.
- Power station installations and upgrades - working with equipment suppliers and / or Build Own Operators (BOO) for both Diesel and Gas fired solutions.
- Communications and internet infrastructure.
- Remote area cyclone refuges.
- Remote area port facilities.
- Minesite infrastructure including workshops, stores, laboratories, gate houses and security systems.
- Power distribution systems.



- Camp relocations.
- Borefield.
- Fuel and gas farms.
- Roads and airstrips.

MSP can undertake studies for remote area infrastructure from scoping studies through to full feasibility and then provide design and construction solutions for full project implementation.

MSP has full in-house design capabilities to support remote area infrastructure projects.

For further information regarding **MSP Engineering's** capabilities and recent project achievements please visit our website.

www.mspengineering.com.au

Or contact **MSP** to discuss your project requirements

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PROJECT IN FOCUS

WODGINA CYCLONE REFUGE

In early 2007, Cyclone George crossed the Pilbara coast at Port Hedland, causing extensive damage to both plant and infrastructure at Talison Minerals - Wodgina Operations located 120km south of Port Hedland.

Talison decided to review the operation needs with respect to providing a dedicated cyclone refuge shelter which not only provided a public assembly point but also encapsulated the essential administration & infrastructure services both during & post cyclone events.

As part of the review, Talison engaged **MSP** to provide several recommendations for a facility to house 180 occupants during a cyclonic event.

In consultation between parties, it was decided to design & construct a facility which encapsulated & fortified the existing camp administration facility & dry mess. The structure was designed to the Australian Building Code as a public building in a region 'D' cyclonic area & incorporated provision for ambulances, backup power first aid facilities, accommodation and potable water capable of supporting 180 men for 48 hours minimum.

The refuge facility was formally opened in May 2008.

The facility is believed to be the first of its kind on a remote minesite in the Pilbara Region and demonstrates Talison's commitment to providing a safe work environment for all its employees.