

# 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.



### Taller 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 Taller 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](http://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.