MSP Engineering Pty Ltd
Company Capability Statement
TABLE OF CONTENTS

CORPORATE PROFILE ............................................................................................................. 3
CORPORATE DIRECTORY ....................................................................................................... 5
RESOURCE DEVELOPMENT EXPERTISE .............................................................................. 6
SERVICE CAPABILITIES ........................................................................................................... 8
PROJECT TEAM ...................................................................................................................... 12
HEALTH, SAFETY & ENVIRONMENTAL ................................................................................ 13
PROJECT ACHIEVEMENTS - INDUSTRIAL MINERALS ....................................................... 15
PROJECT ACHIEVEMENTS - PRECIOUS & BASE METALS .................................................. 28
PROJECT ACHIEVEMENTS - INFRASTRUCTURE ............................................................... 31
PROJECT STUDIES AND EVALUATIONS ............................................................................. 40
CORPORATE PROFILE

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

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

**MSP** has a fully 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, supervisors and project controllers.

**MSP**’s delivery of services to clients is characterised by a:

- Collaborative approach with valued clients based on years of experience in the resource industry.
- Ability to mould the engineering and project delivery models to meet the client’s time, quality and cost expectations.
- Project management systems and personnel with a culture that supports an integrated client team approach, or provision of total turnkey solutions through Lump Sum, Guaranteed Maximum Price, Target Price or EPCM project delivery models.

Over the last decade, **MSP** has developed into a medium scale engineering group, successfully delivering in excess of $300 million of resource development projects in line with best industry practice by its select team of competent professionals.
**MSP** offers resource development expertise in:

- Studies and evaluations.
- Process design.
- Engineering solutions.
- Construction management.
- Commissioning.
- Ongoing operational support services.

**Mission**

**MSP**’s mission is to:

- Grow our business through a collaborative relationship with long term Clients.
- Consistently deliver excellence in quality and cost effective services to our Clients.
- Ensure “safety first” and to minimise the environmental impacts in all we do.
- Provide a culture which develops and incentivises our people to excel.

**Values**

**MSP**’s values are:

- **Safety**: by ensuring the health and safety of **MSP**’s employees and contractors is always placed first and foremost in our activities.
- **Environment**: by committing to preserve the quality and minimising the impact on the natural environments in which we work.
- **Employees**: we treat our employees with respect and dignity. They are our greatest assets.
Integrity in all our dealings.

Open Communication by sharing information with all stakeholders in an open, honest and truthful manner.

Collaboration by working with clients and suppliers and supporting each other

Delivering Excellence focussing on delivering results on quality, cost and time.

Innovation we develop and challenge our people to find creative and flexible solutions for Clients.

Corporate Directory

Company Name: MSP Engineering Pty Ltd

ABN: 64 009 449 950

Head Office: Suite 3.01, Level 3, 110 Erindale Road, Balcatta, WA, 6021

Telephone: +61 8 6241 4900

Facsimile: +61 8 6241 4988

Website Address: www.mspengineering.com.au

E-mail Address: admin@mspengineering.com.au

Directors / Company Secretary: Mr David McSweeney, Non-Executive Chairman
Mr Peter McSweeney, Managing Director
Mr Tony Sheard, Company Secretary

Principal Shareholders
Mr Peter McSweeney
Mr Craig Burton
Mr David McSweeney

Registered Office: Moiler Gasson Pty Ltd
70 Parry Street
Perth, Western Australia, 6000

Bankers: National Bank Australia Limited
Level 1, 1238 Hay Street
West Perth, WA, 6005

Lawyers: Matthew Lewis Lawyer
5 / 39 Broome Street
Cottesloe, WA, 6011
RESOURCE DEVELOPMENT EXPERTISE

In the past 40 years, MSP has developed into a medium scale engineering group providing resource development expertise to a number of Clients. MSP is well established and highly regarded in the following areas of expertise.

Commodity Expertise

MSP has key resource commodity expertise in:

- Industrial Minerals
  - Mineral sands including zircon, garnet, ilmenite, rutile.
  - Lithium / lithium carbonate.
  - Graphite.
  - Alluvial and hard rock tin.
  - Alluvial and hard rock tantalite.
  - Silica / glass sands.
  - Tungsten.
  - Manganese.
  - Salt.

- Precious and Base Metals
  - Gold.
  - Silver.
  - Nickel.
  - Copper.
  - Iron ore.
Process Expertise

**MSP** is well established and regarded in the field of:

- Crushing and grinding circuits.
- Material handling systems.
- Process circuits including gravity and chemical facilities.
- Hydraulic transportation.

Infrastructure Expertise

**MSP** has extensive infrastructure expertise in:

- Remote area housing and camps.
- Mine site infrastructure.
- Power generation.
- Pump stations.
- Air strips and Wharfs.
- Cyclone refuge facilities.
- Waste water and sewerage treatment systems.
SERVICE CAPABILITIES

MSP is extremely proud of its achievements in undertaking conceptual and feasibility studies and subsequently successfully designing, constructing and commissioning mineral processing facilities throughout the world.

MSP offers a collaborative approach to meet or exceed its clients’ time, quality, risk and cost expectations through simple, innovative and efficient services, via an integrated owner’s team approach or the provision of total turnkey solutions.

MSP’s design engineering and project management personnel offer broad expertise and intimate process knowledge in industrial minerals, and precious and base metals, in the fields of gravity / grind, bulk materials handling and associated infrastructure development projects.

MSP has designed project management, control and quality systems tailored to meet specific project and client requirements. These systems are supported by a culture of open communication, integrity and the delivering of excellence.

MSP’s key service areas are:

- Project Studies and Evaluations.
- Engineering Design.
- Project Management.
- Design and Construction.
- Ongoing Operational Support.
Project Studies and Evaluations

**MSP** understand the challenging requirements for its Clients to covert projects from concepts and studies through to fully operational facilities, and thus provides a wide range of services throughout the evaluation phases including:

- Management, design, assessment and analysis of laboratory, bench and testwork programs to confirm flowsheet development.
- Pilot plant trailing including management of assays and interpretation of results for scale up in full plant design.
- Flowsheet development and optimisation and equipment selection at the conceptual, pre-feasibility and feasibility study phases.
- Site condition reports, plant audits, process debottlenecking and subsequent planning.
- Conversion and fast tracking of projects from scoping and feasibility studies through to detailed design, construction and commissioning.

Engineering Design

**MSP** provides a variety of engineering design services to clients:

- Conceptual and detailed design of minerals processing facilities and associated infrastructure for both greenfields and brownfields projects.
- Detailed engineering design for a range of disciplines including process, mechanical, structural, civil, electrical, instrumentation and control systems.

**MSP** generates design drawings using AutoCAD or Microstation.
Project Management

MSP’s provides a wide range of project management and client representative services to its Clients including:

- Contracting strategies.
- Engineering design management of third party deliverables.
- Integrated owner’s team and construction management including client representative, superintendent, technical support and onsite project supervision.
- Quality and HSE management plans and systems tailored for project specific requirements.
- Project risk assessment and management.
- Cost estimating, cost control and scheduling.
- Tender and specification preparation, evaluation and contracts management.
- Procurement, expediting, logistics and warranty management.
- Maintenance planning systems and reviews.

MSP’s project management tools have been streamlined to suit best industry practice and project requirements. MSP uses Microsoft Project and Primavera Contracts Manager to manage end to end business processes including scheduling, contracts management and administration, cost control and procurement.
Design and Construction

**MSP** provides design and construction services to its clients through engineering, procurement and construction management (EPCM) services and turnkey projects based on Guaranteed Maximum Price (GMP), Target Price or Lump Sum models.

**MSP** has significant expertise in the detailed design, construction and commissioning of minerals processing plants, process controls and infrastructure for greenfields projects and plant and infrastructure modifications, expansions, and upgrades to maximise efficiencies and returns on existing brownfield operations.

**MSP** offers project commissioning and training of personnel for the successful transfer of ownership of the asset to its Client’s operational team, subsequent ramp up, debottlenecking and management of third party design deliverables, project practical completion and documentation requirements.

**Ongoing Operational Support Services**

**MSP** provides ongoing operational support services to its Clients to assist with maximising efficiencies and returns on existing operations.

- Process debottlenecking.
- Ramp up.
- Project enhancement opportunities.
- Metallurgical accounting.
- Operator training.
- Development of maintenance systems.
PROJECT TEAM

MSP recognises that its team its greatest asset and are extremely proud of their achievements in undertaking resource development project from conceptual studies through to their successful design, construction and commissioning throughout the world.

MSP’s experienced and dynamic project team provide flexible solutions to meet specific project and client requirements with the support of its project management, control and quality systems.

MSP has continually attracted, retained and developed over 40 dedicated professional and para-professionals in all disciplines including:

- Process Metallurgical and chemical process engineering personnel.
- Engineering Mechanical, civil, structural & electrical engineering design & drafting personnel.
- Project Delivery Study & project management, engineering and coordination personnel.
- Construction Construction management, HSE and site supervision & coordination personnel.
- Business Services Business development, commercial, financial, project control, quality, human resources, safety & administrative personnel.
HEALTH, SAFETY & ENVIRONMENTAL

Safety

MSP is committed to ensuring that all its operations and activities are conducted in a manner that does not adversely impact on the health and safety of any person. Both directors and management consider that there is no more important factor in the undertaking of anyone’s job than the prevention of injury or ill-health to any person.

MSP is committed to ensuring a safe and healthy working environment for all personnel and contractors at all of its work locations and operations.

The complete elimination of injuries is our ultimate goal. MSP strongly believe that all accidents are preventable and that a ‘Zero Accident’ target is achievable.

To achieve these commitments MSP will:

- Involve all personnel and contractors in health and safety programs and training to actively take steps to control hazards.
- Ensure the establishment of Health and Safety Committees and recognise their effectiveness in preventing accidents.
- Continually improve performance to prevent work-related injury and illness through measurable objectives and targets.
- Provide rehabilitation programs for employees in the event of an injury or illness occurring, or in the event of personal or family loss.
- Comply with all relevant legislation, regulations and codes of practice and endeavour to exceed compliance.
• Ensure that all personnel and contractors are aware of MSP’s safety policy and procedures, and are appropriately trained to undertake their duties and understand their responsibilities in accordance with these policies and procedures.

• Integrate and maintain management of health and safety as a central part of the MSP’s safety management system.

Commitment to safety is considered a team obligation involving managers, supervisors, subcontractors, suppliers and employees working together through consultation and co-operation.

Environment

MSP is committed to ensuring that all its operations and activities are conducted in a manner that minimises any impact on the environment.

The company recognises that its operations have an environmental impact and has adopted an approach of proactively managing activities and adopting techniques which minimise environmental harm. The company also recognises the rights of others in the environment.

To achieve our commitment MSP:

• Minimises adverse environmental impacts through the use of integrated management procedures and planning.
• Monitor, review, audit and assess its operations with a view to continual improvement of environmental performance.
• As a minimum, comply with all relevant legislation, regulations and Codes of Practice.
• Implement procedures for establishing and reviewing environmental objectives and targets.
• Recognise the responsibilities of all employees, including contractors, to work in an appropriate manner, and provide training and resources to ensure tasks are properly performed.
• Prevent pollution.
• A minimum practical disturbance approach to mining and rehabilitate disturbed areas to a pre-determined land use.
• Communicate with stakeholders about the company environmental performance and has relevant information publicly available.

Commitment to the environment is a team obligation involving co-operation and consultation between employees, contractors and stakeholders.
PROJECT ACHIEVEMENTS

Industrial Minerals
<table>
<thead>
<tr>
<th>Client:</th>
<th>Sons of Gwalia Limited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Name:</td>
<td>Wodgina Stage 1 Upgrade Project</td>
</tr>
<tr>
<td>Location:</td>
<td>Wodgina Operations, Western Australia</td>
</tr>
<tr>
<td>MSP's Role:</td>
<td>Project Management and Infrastructure EPCM Services</td>
</tr>
<tr>
<td>Product:</td>
<td>Tantalum</td>
</tr>
<tr>
<td>Project Value:</td>
<td>$12.0 million AUD</td>
</tr>
<tr>
<td>Scope of Works:</td>
<td>The project scope of works was to maintain the capacity of the Wodgina Plant at its current throughput level whilst increasing overall final product recoveries. The project involved the construction of new facilities and modifications of the existing facilities to increase recoveries by:</td>
</tr>
<tr>
<td></td>
<td>- expanding the coarse recovery circuit with the addition of a very coarse spiral circuit and recommissioning of the existing IPJ jigs.</td>
</tr>
<tr>
<td></td>
<td>- expanding the table circuit with the addition of a new tables building dedicated to processing coarse concentrates.</td>
</tr>
<tr>
<td></td>
<td>- re-commissioning the Falcon/ MGS circuit for recovery of fines tail products.</td>
</tr>
<tr>
<td></td>
<td>The project also included:</td>
</tr>
<tr>
<td></td>
<td>- Workshop Relocation - relocation of the existing workshop, maintenance and electrical offices in preparation for the construction of the tables building.</td>
</tr>
<tr>
<td></td>
<td>- Power Station Upgrade - expand the capacity of the existing enGen gas fired power station to accommodate the increased load associated with the Project.</td>
</tr>
<tr>
<td></td>
<td>- Equipment Refurbishment Contract - Minor equipment refurbishment associated with the Falcons, MGS and stack sizers.</td>
</tr>
<tr>
<td>Project Achievements:</td>
<td>The project was completed within the $12.0 m budget and within the tight 38 week project schedule.</td>
</tr>
</tbody>
</table>
### Client:
Rocla Quarry Products

### Project Name:
Golden Grove Glass Plant Expansion Project

### Location:
Golden Grove Operations, South Australia

### MSP's Role:
Feasibility Study; EPCM Services

### Product:
Silica Sands

### Project Value:
$2.5 million AUD

### Scope of Works:
MSP conducted a Feasibility Study to review the Golden Grove operations glass plant circuit and prepare recommendations and a capital estimate study to double the plant’s production from 60,000 tpa to 120,000 tpa glass silica sands to accommodate increased supply volumes.

MSP carried out the full metallurgical investigation including bench scale, pilot plant and full scale field trials to develop a robust expanded glass plant.

Upon acceptance of the study, MSP then provided EPCM services.

### Project Achievements:
- Completed the project within the 24 weeks development schedule.
**Client:** Talison Minerals Limited  
**Project Name:** Greenbushes Low Grade Lithium Project  
**Location:** Greenbushes Operations, Western Australia  
**MSP’s Role:** EPC Contractor  
**Product:** Lithium  
**Project Value:** $ 8.9 million AUD  

**Scope of Works:**  
MSP were commissioned by Talison Minerals to undertake a Scoping Study to recover fine lithium product from its current Greenbushes HMS circuit.  
Following completion of the study, MSP was awarded the complete process, engineering design and construction contract on a GMP contracting basis.  
The project was successfully delivered in three phases. Phase One was commissioned in November 2008, incorporating the raw water and dewatering circuit. Phase Two incorporated the feed preparation circuit commissioning. Phase Three, being the balance of all plant and the associated circuit was commissioned in February 2009.  

**Project Achievements:**  
- MSP delivered the project within the tight budget and project schedule.
Client: Sons of Gwalia Limited and Cable Sands

Project Name: Murray Basin Mineral Sands Project

Location: Murray Basin, Victoria

MSP's Role: Engineering Design and Project Management

Product: Mineral Sands

Project Value: $ 45.0 million AUD

Scope of Works: MSP provided design and project management services for the establishment of the Murray Basin Titanium's Mineral Sands Project.

The project involved the relocation and refurbishment of a 500tphr floating dredge concentrator and 15tphr dry separation plant and all associated infrastructure.

Project Achievements:

- The project was successfully completed within the $45.0m budget and 18 month time frame.
Client: Sons of Gwalia Limited

Project Name: Wodgina Tantalite Expansion Project

Location: Wodgina, Western Australia

MSP’s Role: Project Management

Product: Tantalum

Project Value: $22.0 million AUD

Scope of Works: MSP was engaged to ensure the timely completion of the Wodgina Tantalite operations first stage expansion project, including a 100tphr gravity grinding circuit, 3 stage crushing circuit, contract power station and all associated infrastructure.

Project Achievements:
- The project was successfully completed within the project budget and over a 14 month period.
<table>
<thead>
<tr>
<th>Client:</th>
<th>ISK Mineral Sands</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Name:</td>
<td>ISK Mineral Sands Project</td>
</tr>
<tr>
<td>Location:</td>
<td>Bunbury, Western Australia</td>
</tr>
<tr>
<td>MSP’s Role:</td>
<td>Engineering Design and Project Management</td>
</tr>
<tr>
<td>Product:</td>
<td>Mineral Sands</td>
</tr>
<tr>
<td>Project Value:</td>
<td>$ 12.0 million AUD</td>
</tr>
<tr>
<td>Scope of Works:</td>
<td>MSP as the project managers and engineers designed and supplied ISK Mineral Sand's a state of the art 150tphr wet concentrator and 18tphr dry separation plant.</td>
</tr>
<tr>
<td>Project Achievements:</td>
<td>• Total project capital was in excess of $12.0m and was delivered inside schedule and budget.</td>
</tr>
</tbody>
</table>
Client: Sons of Gwalia Limited

Project Name: Greenbushes HMS Expansion Project

Location: Greenbushes, Western Australia

MSP's Role: Feasibility Study; Design and Project Management

Product: Lithium

Project Value: $1.0 million AUD

Scope of Works:
MSP conducted a Feasibility Study for Sons of Gwalia’s Greenbushes Lithium Treatment Facility for the establishment of a front end feed preparation circuit to allow low grade spodumene ore to be introduced to the HMS circuit whilst the main lithium processing facility concurrently treated HG material.

MSP was then engaged to provide detailed engineering design and project management services for project implementation.

Project Achievements:
- The project was completed and commissioned successfully within the Client’s guidelines and design criteria.
Client: Rocla Quarry Products

Project Name: Golden Grove Paste Thickener Project

Location: Golden Grove, South Australia

MSP’s Role: Engineering Design and Project Management

Product: Silica Sands

Project Value: $2.0 million AUD

Scope of Works: MSP undertook detailed design and installation of a 10m diameter high rate/high compression thickener and flocculent dosing facility for Rocla’s Golden Grove silica sands operations.

The successful installation resulted in overcoming paste, water and environmental management issues.

Project Achievements: The project was completed within the Client’s budget and schedule.
Client: VV Minerals

Project Name: VV Minerals Concentrator Project

Location: Southern India

MSP’s Role: Engineering Design and Construction Management

Product: Mineral Sands

Scope of Works: MSP was engaged by VV Minerals to review process and undertake the detail design, construction management and commissioning of a 100tph mineral sands gravity separation plant, located in Southern India.

Project Achievements:
- Constructed using local workforce and fabricating facilities
- Process facility exceeded nameplate throughput capacity
<table>
<thead>
<tr>
<th><strong>Client:</strong></th>
<th>Tantalum Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Name:</strong></td>
<td>Dalgaranga Tantalite Expansion Project</td>
</tr>
<tr>
<td><strong>Location:</strong></td>
<td>Mount Magnet, Western Australia</td>
</tr>
<tr>
<td><strong>MSP's Role:</strong></td>
<td>Project Management</td>
</tr>
<tr>
<td><strong>Product:</strong></td>
<td>Tantalum</td>
</tr>
<tr>
<td><strong>Project Value:</strong></td>
<td>$ 3.0 million AUD</td>
</tr>
<tr>
<td><strong>Scope of Works:</strong></td>
<td>MSP was engaged by Tantalum Australia to undertake the detailed process design, equipment selection, detailed engineering design, contract and site construction of the Dalgaranga Tantalite expansion project. The plant incorporated two stage grinding circuit and 5 stage gravity circuits to produce a tantalite concentrate for downstream processing.</td>
</tr>
<tr>
<td><strong>Project Achievements:</strong></td>
<td>• Circuit met and exceeded Client expectations in regards to throughput recoveries and final product grade.</td>
</tr>
</tbody>
</table>
Client: Cable Sands  
Project Name: Jangardup Mineral Sands Concentrator Relocation Project  
Location: Jangardup Operations, Western Australia  
MSP’s Role: Project and Construction Management  
Project Value: $2.0 million AUD  
Scope of Works: MSP provided project and construction management services of the $2.0m decommissioning of the mineral sands concentrator at Cable Sand’s Jangardup operation and its subsequent relocation.  
Project Achievements: The project was completed ahead of schedule and on budget.
<table>
<thead>
<tr>
<th><strong>Client:</strong></th>
<th>Rocla Quarry Products</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Name:</strong></td>
<td>Gnangara Engineering Services</td>
</tr>
<tr>
<td><strong>Location:</strong></td>
<td>Gnangara Operations, Western Australia</td>
</tr>
<tr>
<td><strong>MSP’s Role:</strong></td>
<td>Consulting Engineering Services</td>
</tr>
<tr>
<td><strong>Product:</strong></td>
<td>Silica Sands</td>
</tr>
<tr>
<td><strong>Scope of Works:</strong></td>
<td>MSP has provided ongoing technical consultancy services to Rocla Quarry Products, predominately in the development of their wet and dry processing facilities at Gnangara.</td>
</tr>
<tr>
<td><strong>Project Achievements:</strong></td>
<td>• All of MSP’s improvement projects have met or exceeded performance specifications.</td>
</tr>
<tr>
<td>Client:</td>
<td>Australasian Minerals and Trading</td>
</tr>
<tr>
<td>---------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>Project Name:</td>
<td>Pilot Plant Project</td>
</tr>
<tr>
<td>Location</td>
<td>Kerenpangi, Indonesia</td>
</tr>
<tr>
<td>MSP’s Role:</td>
<td>EPCM Services</td>
</tr>
<tr>
<td>Product:</td>
<td>Zircon</td>
</tr>
<tr>
<td>Scope of Works:</td>
<td>MSP were engaged by Australasian Minerals and Trading to supply a 10tphr pilot scale production plant for processing zircon sands including both the wet separation and dry magnetic and electrostatic plant.</td>
</tr>
<tr>
<td>Project Achievements:</td>
<td>The plant was full modulised and packaged into sea containers for simplistic site construction and commissioning.</td>
</tr>
</tbody>
</table>
PROJECT ACHIEVEMENTS
Precious & Base Metals
Client: Allied Gold Limited

Project Name: Simberi Gold Project

Location: Simberi Island, Papua New Guinea

MSP’s Role: Client Representative

Product: Gold

Project Value: $ 80.0 million AUD

Scope of Works: MSP were appointed during project construction to provide assistance as Allied Gold’s client representative team for the $80.0m Simberi Gold Project, located on the Simberi Island in Papua New Guinea.

Project Achievements:
- MSP’s significantly assisted Allied Gold in achievement of project deliverables and management of key engineering and construction sub-contractors.
<table>
<thead>
<tr>
<th>Client:</th>
<th>Pt. Avocet Bolaang Mongondow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Name:</td>
<td>North Lanut Gold Treatment Facility</td>
</tr>
<tr>
<td>Location:</td>
<td>Northern Salawesi, Indonesia</td>
</tr>
<tr>
<td>MSP's Role:</td>
<td>Engineering Design and Procurement Management</td>
</tr>
<tr>
<td>Product:</td>
<td>Gold</td>
</tr>
<tr>
<td>Project Value:</td>
<td>$6.0 million AUD</td>
</tr>
<tr>
<td>Scope of Works:</td>
<td>MSP successfully engineered and provided project management and procurement services for Avocet Mining’s North Lanut Gold Project in Northern Salawesi, Indonesia. The project is a dump leach operation and incorporated the use of resin leach technology and represents one of the first facilities to be constructed of its kind.</td>
</tr>
<tr>
<td>Project Achievements:</td>
<td>• Following a one year construction period, gold projection commenced with the project reaching a record gold product of 74,000 ounces in 2008 at a very favourable cash operating costs to Avocet.</td>
</tr>
</tbody>
</table>
PROJECT ACHIEVEMENTS

Infrastructure
<table>
<thead>
<tr>
<th>Client:</th>
<th>Shark Bay Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Name:</td>
<td>Island Conveyor Upgrade Project</td>
</tr>
<tr>
<td>Location:</td>
<td>Useless Loop Operations, Western Australia</td>
</tr>
<tr>
<td>MSP's Role:</td>
<td>EPC Contractor</td>
</tr>
<tr>
<td>Project Value:</td>
<td>$ 3.2 million AUD</td>
</tr>
<tr>
<td>Scope of Works:</td>
<td>MSP designed and constructed a $3.2m upgrade of Shark Bay Resource's Useless Loop Salt Operations island conveyor system and associated infrastructure.</td>
</tr>
<tr>
<td>Project Achievements:</td>
<td>The project required extensive use of support piling and brownfields tie-ins to the existing conveyor system in order to minimise disruption to the operations busy shipping schedule.</td>
</tr>
</tbody>
</table>
Client: Talison Minerals

Project Name: Wodgina North Camp Expansion Project

Location: Wodgina, Western Australia

MSP’s Role: Feasibility Study; EPC Contractor

Project Value: $2.2 million AUD

Scope of Works:
MSP was engaged by Talison Minerals to complete a feasibility study for the expansion of their Wodgina operations North Camp and associated infrastructure.

MSP were then awarded the detailed design and construction of the camp expansion, wet mess upgrade, sewerage treatment facility and other associated infrastructure.

Project Achievements:
- The project was completed within the $2.2m GMP contract value.
- No HSE issues
Client: Talison Minerals

Project Name: Wodgina Cyclone Shelter Project

Location: Wodgina, Western Australia

MSP’s Role: Feasibility Study; EPC Contractor

Project Value: $1.0 million AUD

Scope of Works: MSP were engaged by Talison Minerals to provide recommendations to provide a facility to house occupants during a cyclonic event at its Wodgina tantalite operations. Following the Feasibility Study, MSP was then awarded the detailed design and construction of the cyclone shelter which encapsulated and fortified the existing camp administration facility and dry mess and made provision for ambulances, backup power, first aid facilities, accommodation and potable water to support 180 men for 48 hours minimum.

Project Achievements:

• This state of the art facility is believed to be the first of its kind on a remote mine site in the Pilbara region.
• The project was completed within the $1.0m GMP contract value.
<table>
<thead>
<tr>
<th>Client:</th>
<th>Australian Renewable Fuels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Name:</td>
<td>Bio-Diesel Facilities Project</td>
</tr>
<tr>
<td>Location:</td>
<td>Adelaide, South Australia and Picton, Western Australia</td>
</tr>
<tr>
<td>MSP’s Role:</td>
<td>Client Representative</td>
</tr>
<tr>
<td>Project Value:</td>
<td>$32.0 million AUD</td>
</tr>
<tr>
<td>Scope of Works:</td>
<td>MSP acted as the client representative to oversee the $80.0M design, fabrication, installation and commissioning of Australian Renewable Fuel’s Picton and Adelaide biodiesel facilities.</td>
</tr>
<tr>
<td>Client:</td>
<td>Sons of Gwalia</td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------------------</td>
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<tr>
<td>Project Name:</td>
<td>Wodgina Cyclone George Remediation Project</td>
</tr>
<tr>
<td>Location:</td>
<td>Wodgina Operations</td>
</tr>
<tr>
<td>MSP’s Role:</td>
<td>Project Management</td>
</tr>
<tr>
<td>Project Value:</td>
<td>$ 7.4 million AUD</td>
</tr>
<tr>
<td>Scope of Works:</td>
<td>MSP were commissioned by Sons of Gwalia to provide engineering, project management and site supervision services for the re-instatement of Wodgina's tantalite operations plant and associated infrastructure damaged by Cyclone George. The project included the preparation of insurance documentation.</td>
</tr>
<tr>
<td>Project Achievements:</td>
<td>The rectification works were completed substantially below the $7.4M budget estimate.</td>
</tr>
<tr>
<td><strong>Client:</strong></td>
<td>Mount Gibson Iron</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>Project Name:</strong></td>
<td>Tallering Peak Camp Expansion Project</td>
</tr>
<tr>
<td><strong>Location:</strong></td>
<td>Tallering Peak, Western Australia</td>
</tr>
<tr>
<td><strong>MSP’s Role:</strong></td>
<td>EPCM Services</td>
</tr>
<tr>
<td><strong>Project Value:</strong></td>
<td>$ 4.3 million</td>
</tr>
<tr>
<td><strong>Scope of Works:</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>
PROJECT STUDIES & EVALUATIONS
## PROJECT STUDIES AND EVALUATIONS

MSP provides a wide range of services to clients throughout the project evaluation and study phases including.

<table>
<thead>
<tr>
<th>Client Name</th>
<th>Project Name</th>
<th>Description</th>
<th>Commodity</th>
<th>$ Value</th>
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</thead>
<tbody>
<tr>
<td>Cleveland Cliff Asia Pacific</td>
<td>Leyte Iron Sands Project, Philippines</td>
<td>Preliminary Desktop Study</td>
<td>Iron sands</td>
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<tr>
<td>Galaxy Resources</td>
<td>Mt Cattlin Spodumene Project</td>
<td>Pre-Feasibility Study</td>
<td>Spodumene</td>
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<tr>
<td>Galaxy Resources</td>
<td>Ravensthorpe Lithium Project</td>
<td>Scoping Study</td>
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<td>Shark Bay Resources</td>
<td>Useless Loop Upgrade Project</td>
<td>Scoping Study</td>
<td>Salt</td>
<td>$ 15.0m</td>
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<td>Avalon Minerals Limited</td>
<td>Viscaria Copper Project</td>
<td>Scoping Study</td>
<td>Copper</td>
<td>$ 1.0m</td>
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<td>Haddington Resources</td>
<td>Baline Industrial Garnet Project</td>
<td>Scoping Study</td>
<td>Garnet</td>
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<td>Emergent Resources</td>
<td>Beyondie Iron Project</td>
<td>Business Plan</td>
<td>Iron</td>
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<tr>
<td>Outback Metals</td>
<td>Mt Wells Cassiterite / Copper Project</td>
<td>Preliminary Desktop Study</td>
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<td>Sultan Corporation</td>
<td>John Fardy Project</td>
<td>Preliminary Desktop Study</td>
<td>Zinc / Copper / Lead</td>
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<td>Gindalbie Metals NL</td>
<td>Minjar Gold Treatment Plant</td>
<td>Definitive Engineering Cost Study</td>
<td>Gold</td>
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<td>Glass Plant Expansion</td>
<td>Feasibility Study</td>
<td>Silica Sands</td>
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<td>Greenbushes Lithium HMS Expansion Project</td>
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<td>Lithium</td>
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<tr>
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<td>Greenbushes Low Grade Lithium Project</td>
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<td>Achmmach Tin Project, Morocco</td>
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<td>Silica Sands Upgrade Project</td>
<td>Design Study</td>
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<td>Las Lagunas Gold Project, Dominican Republic</td>
<td>Scoping and Bankable Feasibility Study</td>
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<td>Rocla Quarry Products</td>
<td>Gnangara Silica Sands Project</td>
<td>Site Audit &amp; Survey Reconciliation</td>
<td>Silica Sands</td>
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<td>Sons of Gwalia</td>
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<td>Desktop Study</td>
<td>Lithium</td>
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<td>Mungada Ridge Hematite Study Review</td>
<td>Project Study Review</td>
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<td>Mawson West Ltd</td>
<td>Maybell Gold Project Treatment Plant</td>
<td>Scoping Study</td>
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<td>Legend Mining Ltd</td>
<td>Gidgee Gold Plant Expansion</td>
<td>Scoping Study</td>
<td>Gold</td>
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<td>Minara Resources</td>
<td>Murrin Murrin Ball Mill Project</td>
<td>Engineering Cost Study</td>
<td>Nickel</td>
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<td>Uley Graphite Project</td>
<td>Scoping Study</td>
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