



ENVIRONMENTAL SERVICES



# TALIS CONSULTANTS

## WHO WE ARE

Talis was established in 2012 and is a medium sized, versatile consultancy with a particular focus on client service across the public and private sectors. We are a multidisciplinary team with established capabilities in the areas of:

- Assets
- Engineering
- Environment
- Noise
- Spatial
- Waste



## WHAT WE DO BEST

### FIT-FOR-PURPOSE SOLUTIONS

At Talis we recognise the necessity to develop tailored project solutions that are cost effective and fit for purpose. We pride ourselves on being flexible, dependable and accountable, which is why we enjoy repeat business and maintain longstanding relationships with our clients.

### END-TO-END ENVIRONMENTAL SERVICES

Our team is multidisciplinary, ensuring every client has access to a broad skill base. Our aim is to understand our clients' businesses and provide cost-effective and innovative solutions. Our services cover all facets of environmental management, from feasibility and due diligence through to closure.

### APPROVALS, INVESTIGATION AND MANAGEMENT

We specialise in approvals, investigations and environmental management under a variety of legislation (Environmental, Mining, Planning and Contamination) across various jurisdictions.

### STAKEHOLDER ENGAGEMENT

We understand the importance of stakeholder engagement in the successful delivery of a project. Our relationship management skills, ability to communicate effectively and openly, best practice approach which is based on transparent, informed decision-making and our technical knowledge, contributes to effective stakeholder engagement.





# OUR SERVICES

## MINING AND INDUSTRIAL

Talis specialises in environmental impact assessment and approvals for mining and industrial clients. Our experience ranges from major environmental assessments through to licensing and subsidiary approvals, including project management of specialist sub-consultants where required. Talis personnel have first hand experience working for mining and industrial operations as well as government agencies responsible for regulation of these facilities.



## ENVIRONMENTAL INVESTIGATIONS

Talis specialises in all aspects of environmental site assessments. We have a detailed understanding of, and experience in, contaminated site assessments and remediation, hydrogeological assessments and geotechnical investigations, delivering holistic, integrated solutions to our clients.



## AIR QUALITY INVESTIGATIONS

Talis understands the needs of our clients with respect to air quality. We conduct a range of air quality assessments including site-specific sampling and testing as well as dispersion modelling assessments. We work with our clients on a national basis to secure approvals and assess compliance. We have experience in the design and development of meteorological datasets as well as dispersion modelling techniques.



# MINING AND INDUSTRIAL



INDUSTRIAL



SITING . DUE-DILIGENCE . DESIGN PLANNING  
CONSTRUCTION . OPERATION . CLOSURE

MINING



EXPLORATION . FEASIBILITY & DESIGN  
CONSTRUCTION . OPERATION . REHABILITATION & CLOSURE

## 420+ PROJECTS DELIVERED

**PROJECT NAME: ST IVES**

**CLIENT: ST IVES GOLD MINING COMPANY**

The St Ives gold mining operations are near Kambalda, Western Australia, on and around Lake Lefroy. St Ives is one of Western Australia's top five gold producers. Talis has worked with St Ives since 2014 and has provided services across approvals, operation and closure. Talis has also assisted St Ives with environmental impact assessments for a major expansion of its operations (the "Beyond 2018 Project"), developing an innovative approach to seek long term access to gold resources while managing and monitoring key environmental considerations.

*"The professional working relationship between Gold Fields' St Ives Gold Mine team and Talis has been critical in ensuring the continuity of operations." - St Ives Gold Mining Company*

**PROJECT NAME: MUNGARI**

**CLIENT: EVOLUTION MINING**

The Mungari assets comprise a range of deposits for which Talis has undertaken environmental impact assessments and prepared documents for submission to the government, seeking approvals to further develop mining and processing operations.

**PROJECT NAME: PADDINGTON**

**CLIENT: NORTON GOLD FIELDS**

Talis has prepared mine closure plans for various groups of mines across Paddington's tenure and has assisted the operations with mining proposals, closure planning, hydrological investigations and statutory advisory services.



The Talis Environmental Team has a diverse range of skills with qualifications and experience in science, engineering and law. Our expertise, coupled with our private and public sector experience, allows us to successfully navigate project requirements and efficiently manage complex and sensitive approvals processes, compliance procedures, stakeholder engagement, legal frameworks and more, whilst providing the best possible outcome for our Clients.



### DUE-DILIGENCE

- Ecological and Heritage Surveys
- Monitoring and Management Plans
- Strategic Environmental Advice
- Programmes of Work
- Feasibility Studies



### APPROVALS

- Environmental Impact Assessment
- Environmental Protection Legislation Referral and Assessment
- Stakeholder Engagement
- Works Approval, Registration and Licence
- Mining Proposal
- Planning Approval
- Peer Review and Expert Witness
- Ecological and Heritage Surveys



### OPERATION

- Monitoring and Management Plans
- Approvals Compliance
- Environmental Reporting (Annual Environmental Report(s), National Pollutant Inventory)
- Mining Rehabilitation Fund (MRF) Reporting
- Advisory Services
- Secondments



### CLOSURE

- Compliance
- Mine Closure Plan Preparation and Review
- Contamination Investigations and Remediation
- Relinquishment



### REHABILITATION

- Ecological and Heritage Surveys
- Contaminated Sites and Acid Sulfate Soils (ASS) Investigations
- Water Management
- Rehabilitation Plans

### CLIENT FOCUS

- STAKEHOLDER ENGAGEMENT
- ADVISORY SERVICES
- TECHNICAL REPORTING
- LEGAL REPRESENTATION
- COMMUNITY ENGAGEMENT

**PROJECT NAME: MT THIRSTY COBALT-NICKEL DEPOSIT**  
**CLIENT: BARRA RESOURCES**

Talis has assisted the company with pre-feasibility investigations, concentrating on the environmental features of the area and the likely approvals required should the company elect to proceed to mining.

**PROJECT NAME: MINE REHABILITATION FUND**  
**CLIENT: VARIOUS**

The MRF levy payable is based on the type and extent of disturbance. Talis helps a range of mine sites calculate their annual liability, ensuring the areas of disturbance are accurately captured and the disturbance types are classified in a manner consistent with government guidelines.

**PROJECT NAME: KOOLAN ISLAND**  
**CLIENT: MT GIBSON IRON ORE**

The operations hold environmental approvals under a range of State and Federal legislation for which regular reporting of compliance is required. Talis personnel have visited the site and undertaken audits to assess the level of compliance.

**PROJECT NAME: NICKEL WEST**  
**CLIENT: BHP**

As a major nickel producer, BHP Nickel West operates a range of mines and processing facilities in Western Australia. Talis has assisted Nickel West with environmental approvals, compliance auditing and site support.

# ENVIRONMENTAL INVESTIGATIONS

## DRIVERS

- Changes in land-use and development of land
- Land transactions
- Industrial activities
- Import of materials
- Excavation/exposure of materials
- Statutory requirements/notices
- Pre/post lease investigations
- Other activities

**DELIVERING SOLUTIONS  
THAT ADDRESS THE  
RISKS OF DEVELOPMENT  
AND MINIMISE EXPOSURE  
TO FUTURE LIABILITY**

## **200+ PUBLIC & PRIVATE SECTOR CLIENTS**

### **PROJECT NAME: DETAILED SITE INVESTIGATION CLIENT: GREAT NORTHERN CONNECT**

Talis was engaged to undertake environmental investigations at a site that was situated within the development corridor of the Perth to Darwin National Highway. Talis prepared a Sampling Analysis and Quality Plan and undertook a Detailed Site Investigation. Talis proposed an alternative remedial approach, where contaminated soils were 'capped' beneath the proposed road, resulting in a cost effective and sustainable outcome for the development. Following capping of soils, Talis prepared a Site Remediation and Validation report.

### **PROJECT NAME: ASSESSMENT OF TREATED TIMBER POLES CLIENT: HORIZON POWER**

Horizon Power engaged Talis to assess the residual levels of chemicals within the treated timber butts, i.e. the section placed into the ground. Talis undertook several rounds of sampling from numerous treated timber butts, following which, a sustainable approach to remediation involving bioremediation was proposed.

### **PROJECT NAME: MATERIAL ACCEPTANCE & SAMPLING PLANS CLIENT: URBAN RESOURCES**

Talis was engaged by Urban Resources to prepare the first Material Acceptance and Sampling Plans under the Western Australian Waste Authority's Road to Reuse program, allowing Urban Resources to supply Main Roads with construction and demolition waste for use within the Kwinana Freeway widening.



**WIDE RANGE  
OF INDEPENDENT  
SERVICES  
ACROSS MULTIPLE  
INDUSTRIES**



## CONTAMINATED SITE INVESTIGATION

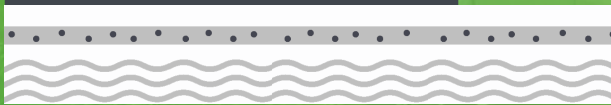


- Preliminary Site Investigations
- Detailed Site Investigations
- Sampling and Analysis Quality Plans
- Human Health and Ecological Health Assessments
- Remediation and Validation
- Groundwater and Surface Water Monitoring
- Landfill Gas and Vapour Assessment
- Site Management Plans
- PFAS

## HYDROGEOLOGICAL INVESTIGATIONS



- Hydrogeological Intrusive Investigations
- Aquifer Parameter Testing
- Geochemical Assessment
- LandSim Modelling
- Hydrogeological Risk Assessments
- Compliance Monitoring and Reporting
- Peer Review
- Dewatering Assessment



## GEOTECHNICAL INVESTIGATION



- Geotechnical Site Classification
- GITA Level 1 Supervision
- Soil Indexing
- Site Management Plans



## ASBESTOS MANAGEMENT

- Asbestos Contaminated Site Investigations & Management Plans
- Natural Occurring Asbestos Assessment
- Fibrous Air Quality Assessment
- Asbestos Remediation Supervision



## ACID SULFATE SOILS



- Compliance
- Baseline Groundwater Assessment
- Development of Monitoring Programs and Management Plans
- ASS Soil Investigations
- Dewatering Assessment



### PROJECT NAME: GEOTECHNICAL INVESTIGATION CLIENT: SHIRE OF ASHBURTON

Talis completed a geotechnical investigation across the proposed development area of the Pilbara Regional Waste Management Facility, including the preparation of a geotechnical site classification report.

### PROJECT NAME: RAAF BASE PFAS INVESTIGATION CLIENT: LUCID CONSULTING

Talis was commissioned by Lucid Consulting on behalf of the Royal Australian Air Force (RAAF) to undertake an assessment of PFAS contamination as part of a construction project at the RAAF Base Pearce, located in Bullsbrook WA.

### PROJECT NAME: BANNISTER ROAD INVESTIGATIONS CLIENT: CITY OF CANNING

Talis was engaged to complete a Detailed Site Investigation and geotechnical investigation for the city's historic landfill located on Bannister Road. Initially, a Sampling and Analysis Quality Plan was prepared, and approved by a DWER accredited auditor. Following which, a Detailed Site Investigation report was prepared.

### PROJECT NAME: HYDROGEOLOGICAL RISK ASSESSMENT CLIENT: MURRAY RIVER COUNCIL (NSW)

Talis completed a hydrogeological risk assessment of an old unlined landfill on the banks of the Murray River. Talis supervised and directed the installation of several monitoring wells. Talis also undertook a hydrogeological risk assessment including a PFAS risk assessment.



## LOCATIONS

### PERTH OFFICE (H/O)

604 Newcastle St,  
Leederville WA 6007  
PO Box 454, Leederville WA 6903

### NOWRA OFFICE

76 Bridge Rd,  
Nowra NSW 2541  
PO Box 1189, Nowra NSW 2541

### NEWCASTLE OFFICE

58 Cleary St,  
Hamilton NSW 2303

### BRISBANE OFFICE

35 Boundary St,  
South Brisbane QLD 4101

### OPERATING BASES

Hobart | Melbourne | Sydney



1300 251 070



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Environment  
Institute of  
Australia and  
New Zealand



**IPWEA**  
INSTITUTE OF PUBLIC WORKS  
ENGINEERING AUSTRALIA