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ALS is the **global** benchmark for **service** and **integrity**

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**Company Overview**

As a global leader in the testing, inspection and certification industry, ALS is focused on delivering high quality client solutions.

We provide services to government, multi-national companies, manufacturers, retailers, consultants, and mining companies across the world. ALS processes more than 20 million samples per year and is one of the largest TIC companies in the world.

At ALS we are committed to assuring our community by providing high quality, innovative, professional testing services to help our client make informed decisions. We support clients to ensure their businesses operate in the most efficient, environmentally and socially responsible, market competitive way possible.

Our global scale benefits clients through technical leadership, access to emerging technology and regulatory trends, and a large pool of technical experts. This is balanced with a local focus to provide ease of use and market specific knowledge and services.

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**Core Values**

As a company we can trace our history back to 1863, our core values drive the decisions we make today in building on this legacy.
Benefits of using ALS for testing and analysis

“The people at ALS are always very friendly and accommodating. They are quick to respond, they have reasonable pricing, and quick turnaround. ALS is just all around a great company to deal with!”

HEALTH CARE FIRM

At ALS we strive to provide clients with a service that meets and exceeds their expectations.

Our commitment to good science and personal service is backed by a thorough and constantly improving quality management system. We are evolving our services to improve your ALS experience. When working with ALS, clients can expect:

- Service delivery and laboratory result turnaround to meet your project requirements. This includes rapid turnaround on projects which are time sensitive and critical.
- Dedicated client and project management to provide ease of use.
- Extensive experience and deep industry knowledge through working with a wide range of clients and programs.
- World class laboratory facilities to provide an environment that supports quality and accuracy, and with a scale to run large client projects.
- Technical resources to help solve problems.
- Technology solutions to help manage your projects and laboratory data.
- Access to the latest analytical technology to achieve required limits of reporting.
- A global network that provides knowledge of emerging regulatory trends, and is supported by the release of regular technical bulletins and social media posts.
- A commitment to safety as a priority
“If I ever have questions about sampling or analysis, I go directly to ALS. The staff are extremely knowledgeable and helpful.”

MINING COMPANY

The ALS laboratory network specialising in water analysis includes 12 locations and continues to grow. Hub laboratory facilities are currently located in Brisbane, Canberra, Melbourne (Scoresby), Newcastle, Perth and Sydney.

Regional laboratories are located in Bendigo, Geelong, Nowra, Newcastle, Townsville, Traralgon and Wangaratta. Service offices are located in Adelaide, Gladstone, Chinchilla, Wollongong, Darwin, Emerald and Mackay. Our team are located in Canberra, Mackay, Melbourne, Penrith, Brisbane and Rockhampton.

The network performs an extensive range of chemical, microbiological, radiological and biological analysis to meet the needs of local and regional clients.

In addition, a number of other service lines laboratories provide support for local mining and industry clients in several regional centres (Gunnedah, Lithgow, Orange and Mount Isa).

Inter-office support and courier arrangements facilitate timely access to the full range of services and on-time result delivery.
ALS is committed to a safe work culture. Our global minimum standard assists in managing health, safety and environment risks. ALS employs a team of Health and Safety professionals at both regional and corporate level to support continual improvement and best practice.

ALS believes the meeting of its safety and environmental obligations is essential to our long-term success. The company imparts its safety and environmental values from the first day the employee commences work with the company and throughout their term as a valued employee.

We do this by:

- Comprehensive safety training as part of the employee onboarding process
- Ongoing Training such as tool box talks, formal training on core topics, regular whole staff site safety address, and personalised training where identified via risk assessments
- Integration with our day to day operations via our “safety first” program and BSI AS4801, OHSAS18001 and ISO14001 certified HSE management systems
- Auditing, reporting and review at all levels of the organization

ALS has a core value of “Safety as a Priority”. Being an employee of ALS is about putting safety first. This approach is identical for staff working in ALS Lima, Vancouver, Johannesburg, Hong Kong, or Sydney.

As part of this global approach, the minimum standard is driven by an ethic to deliver a consistently friendly and safe approach to work, regardless of differences in local laws.

The ALS HSE Minimum Standard requires each business to manage key risks by adopting the following:

- Ensuring health, safety and environmental resources are available;
- Ensuring managers are aware of their responsibilities;
- Implementing a plan for managing injuries and site emergencies;
- Ensuring contractors work safely;
- Ensuring that key safety information is available for all staff to view;
- Providing training on key safety risks;
- Ensuring that staff have an opportunity to provide feedback;
- Ensuring that work areas are designed and maintained in a safe manner
- Ensuring that all incidents are reported so we can learn from our experiences;
- Completing a review of health and safety issues on a regular basis; and
- Ensuring that a monthly site audit of Safety issues is conducted.

Fixed schedules are in place for auditing, reporting and review of the HSE management system by staff, supervisors, and management.

Environment

ALS is committed to minimizing its environmental footprint. To support this goal, each laboratory adheres to relevant legislation in their jurisdiction for waste storage and disposal. Samples and wastes are recycled or disposed in an environmentally responsible manner. Containers and packaging are recycled wherever possible.

Lost Time Injuries (LTIFR)

ALS continually tracks and strives to improve safety performance. Data is tracked by site, business, group and division regionally and globally with key information reported to staff and discussed at meetings and toolbox talks.

Positive Performance Indicator Including Leadership

The Positive Performance Indicators (PPI) System is designed as a proactive mechanism to continually improve safety culture. Current data for ALS Limited follows:

PPI Chart

Profile: ALS Limited
Financial Year:
April 2016 — March 2017
as reported 31 March 2017

Total score: 90.00%  
Staff hours  
(12 mth rolling average): 22,534,875
Celebrating more than 30 years of experience in the water testing market

ALS is a growing and dynamic provider of Water focused Analytical Solutions. Safety leadership, High Quality data, excellent Quality Systems, Service Integrity, Strong Innovation and R&D are what our clients both expect and receive. Our clients acknowledge the expert technical support, client service and training, which is why they continuously rate ALS so highly in Net Promoter Surveys.

ALS’ Australian water laboratory and sampling operations employ over 300 professional and support staff including NATA assessors and Laboratory Approved Signatories, and individuals widely recognised as industry leaders. People and knowledge are key priorities for ALS and as such, internal development programmes are routinely run to foster both technical and business skills. The global reach of ALS water testing services extends to operations in Asia, Europe and the Americas, and facilitates the sharing of world’s best practice and emerging analytical capabilities.

Water Testing and Analysis
ALS is the largest and most diverse provider of commercial Water Analytical Services in Australia. Our services cater to a number of distinct industry sectors including:

- Sampling of Catchment/Drinking Water/Wastewater/Trade waste
- Drinking/Potable Water
- Catchment Management/Water Resource
- Desalination/Recycled Water
- Waste Water Treatment/Industrial Water
- Groundwater
- General Water Quality Monitoring
- Special Projects e.g. chlorine demand trials
- Hospital and Aged Care Warm Water Systems
- Cooling Towers and Heating Waters
- Recreational Waters/ Swimming Pools
- Special Projects e.g. chlorine demand trials
- Hospital Sterilisation Water
- Trade Waste
- Biosolids

Our wider client base includes national, state and local governments, private industry, multinationals, utilities, major mining and resource companies. ALS is a strong supporter of industry associations such as Australian Water Association (AWA) and regularly provides training and technical support for clients focusing especially on the development of the water industry.
ALS provides routine and specialised NATA accredited chemical, microbiological, pathogenic, radiological and biological analyses and field sampling services in the environmental, water and public health fields. Analytical and sampling services are offered for the monitoring of all drinking water, surface, trade waste, environmental, wastewater, biosolids and groundwaters.

Below are some of the routine analytical services provided by ALS:

### Chemical
- Elements/Metals – Full Elemental Scans
- General Chemistry – Physicals, Solids, Anions, BOD/COD, TOC, O&G, Surfactants, Cyanide, Sulfide, Sulfite
- Nutrients – Total Nitrogen, Phosphorous, TKN, NH3, ORP
- Organics – VOC, SVOC, Algal Toxins, Nitrosamines, THMs, HAAs, Acrylamide, DBPs, PPCPs, MIB/Geosmin.

### Pathogenic
- Bacteroides
- Coliphage
- Cryptosporidium and Giardia including Genotyping and Infectivity
- Helminths
- Microtox
- Viruses – Adenovirus, Enterovirus, Norovirus I & II, Hepatitis A, Rotavirus.

### Biological
- Algal Count and Identification
- Biovolume
- Blue-Green Algae
- Chlorophyll A and Pheophytin
- Diatoms
- Zooplankton

### Microbiological
- Acid Producing Bacteria
- Clostridia
- E.coli/Coliforms
- Enterococci
- Heterotrophic Plate Count
- Klebsiella
- Legionella
- Psuedomonas
- Sulphate Reducing Bacteria
- Thermotolerant coliforms

### Radiological
- Gross α and β
- Lead\(_{210}\)
- Radium\(_{226}\) and Radium\(_{228}\)
Comprehensive **Range of Capabilities and Services**

**Field Sampling Services**

ALS currently has the largest team of highly experienced NATA accredited water samplers in Australia. With a network of >50 trained samplers across Australia, sampling can be conducted on the following:

- Cooling Towers
- Depth Profiling
- Desalination Plants and Pipelines
- Groundwaters (inc. Low Flow)
- Hospital and Aged Care Warm Water Systems
- Hospital Sterilisation Water
- Recreational Waters (e.g. Swimming Pools/Aquatic Centres)
- Recycled Water Plants
- Reticulated Water
- Rivers, Reservoirs and Catchments
- Sewer Spills
- Tradewaste (Grab and Composite)
- Waste Water and Treatment Plants (Grab and Composite)
- Water Tanks
Specialist Services

Analytical Services

- Acrylamide
- Adsorbable Organic Halides (AOX)
- Algal Toxins – Microcystins, Nodularin, Cylinderospermopsin, Saxitoxins and Others
- Amoeba and Naegleria fowleri
- Bacterial Endotoxin
- Bacteroides
- Blue Green Algae and Algal Counts (Fresh and Marine Waters)
- Captan
- Chlorophyll-a, Pheophytin,
- Coliphage – Somatic and F-RNA
- Cryptosporidium and Giardia
- Cryptosporidium Genotyping and Infectivity
- Challenge Testing of Treatment Plants
- Disinfection by-products
- Filter Media Testing for Drinking Waters
- Geosmin/MIB
- Haloacetic Acids, Haloacetonitriles, Chlorinated Propanones
- Helminths
- Legionella - ISO Std (low level)
- Microbial Source Tracking
- Microtox
- Nitrosamines (8 analytes)
- Nonyl Phenols
- Pathogens (e.g. Salmonella, Listeria, Campylobacter)
- Perfluoroalkyl Substances (PFAS)
- Pesticides, Herbicides and PCBs to ppt levels
- Pharmaceuticals (PPCPs), Steroids, Endocrine Disruptors and Tetracyclines
- Quantitative Polymerase Chain Reaction (qPCR)
- Radionuclides – Gross $\alpha$ & $\beta$, and $Ra_{226}/_{228}$
- Sizings in water
- Taste and odour
- Trace metals in fresh and saline water
- Ultra Trace nutrients
- Ultra Trace Perchlorate and Oxyhalides
- Ultra Trace VOCs and SVOCs
- Viruses – Adenovirus, Enterovirus, Norovirus I & II, Hepatitis A

Emergency & Urgent Sampling

ALS also provides samples for emergency callouts and urgent sampling and can also manage and schedule sampling programs for clients. All sampling conducted by ALS Water is in accordance with:

- AS/NZS 5667 series of Australian Standards
- Safe Drinking Water Regulations
- Australian Drinking Water Guidelines
- Victorian EPA IWRG701 “Sampling and analysis of water wastewater soils and wastes”
Industry Focus

The ALS network of NATA accredited laboratories and service centres across Australia provide efficient and local access for clients to leading capabilities.

An expansive laboratory and field sampling network facilitates customer access to a broad range of services, skills and expertise from almost any region in Australia. Our laboratories are NATA accredited to ISO 17025 and equipped with the latest analytical laboratory instrumentation to provide clients with reliable and timely results.

Services

ALS’ technically focused operations offer the largest combined range of analytical testing solutions to the Australian water industry. ALS R&D departments focus on technical leadership and developing solutions for emerging client needs. ALS provides sampling and testing solutions to all sectors of the greater water industry from catchment/surface, treatment, waste (effluent and trade), desalination and tap water including:

- Chemical
- Microbiological
- Pathogenic
- Biological
- Radiological
- Field Sampling

ALS also offers complimentary hydrographic services via the ALS Hydrographics group operations. ALS also offers a comprehensive range of environmental analysis via the Traditional Environmental Group.

Complimentary Services

Hydrographics

ALS can design, install, operate and maintain a wide range of environmental monitoring systems and utilise these to monitor physical and quality parameters. Major clients include water and mining sectors where real time data on weather, water levels, dust and flows are required to support business, quality and compliance decisions.

Environmental

ALS provides chemical, biological, physical, radiological and microbiological testing capabilities to the wider environmental industry including consulting, government, water, mining, waste, oil and gas and general industry sectors across Australia.

Water

- Drinking/Potable Water
- Catchment/Reservoir/River Water
- Desalination/Recycled Water
- Waste Water Treatment/Effluent/Industrial Water
- Groundwater
- General Water Quality Monitoring
- Trade Waste
- Biosolids
- Recreational Waters
- Cooling and Heating Waters
- Water Sampling (All Water Sources)
- Hospital Sterilisation Water
- Hospital and Aged Care Warm Water Systems

Hydrographics

- Rainfall, weather and climate monitoring
- Water level flow and quality
- Instrument supply and operation
- Ambient air, dust and noise
- Data collection, telemetry, management and reporting
- Flood Warning Systems

Environmental

- Site Assessment/Remediation
- Mining Monitoring and Acid Rock Drainage
- Ambient Air/Soil Gas
- Sediment & Marine Water Analysis
- General Industry Water Quality Monitoring
- Waste Classification
- Acid Sulfate Soils
- Industrial Water (e.g. Coal Seam Gas)
- Occupational Hygiene
- Coal Seam Gas testing plus fugitive emissions
- Coal Seam Gas sampling
- Specialist POP Testing - PFCs, PBDEs, Dioxins etc
- Anti-Film Forming Foam - PFAS
Service Approach and Value Added Services

Our growth has been built on long-term relationships. Our clients are accustomed to receiving high quality data, technical support and excellent communication. This approach includes project and client managers, skilled and qualified client services teams, access to technical experts and a management team committed to service delivery.

Service Inclusions

Our clients have access to a number of value-add services including:

- Preserved labelled containers with appropriately 'risk phrases'
- MSDS access
- Eskies and ice bricks to facilitate sample chilling
- Full Chain of Custody Protocols including Receipt acknowledgement
- Project management services
- Expert technical advice, presentations and support
- World class automated reporting to assist auditor review and aid Data Quality Objective (DQO) compliance (see below)
- Industry training and Technical Workshops.
- Technical EnviroMail™
- Industry training for graduates.

Data Management Support

ALS has a proven record of assisting clients with data management system implementations including mapping to facilitate direct upload into client databases. ALS also provides:

- Leading tailored electronic data delivery formats including ESDAT, EQuIS and many tailored solutions.
- Legacy data in new EDD formats typically once developed to populate client historical databases.

Webtrieve™ / EcoOnline

Webtrieve™ is a secure internet based system that allows direct access to data. Features include:

- Real-time access to analytical results as they are approved, including via iPhone (Webtrieve only)
- Remote downloading of analytical reports and method information
- Tools for data management, including merging multiple work orders and comparison to guidelines
- Rapid retrieval of reports, results, invoices and more.

Technical Bulletins

These publications are designed to communicate technical developments and act as an educational resource. Sampling/ preservation and analysis information on new or emerging contaminants of concern, publications, new technologies, guidelines and key industry information are routinely featured. Subscribe online, or download from the ALS website at www.alsglobal.com.
Quality Assurance

Quality Management System

ALS is committed to consistently providing quality data and service to satisfy the requirements of each client. ALS methodologies are designed to meet the regulatory needs of each market sector in accordance with relevant state and national guidelines.

ALS achieves and maintains its high standard through a quality system focus combined with documented policies and procedures. The system is supported by a dedicated team of highly experienced professionals who maintain the Quality Management System, conduct internal audits and proficiency programs (third party and intra-lab), staff competency and knowledge audits, control documentation, identify improvement opportunities and assist in training and compliance. External audits are also a key aspect of the focus on continuous improvement. ALS Water Division laboratories are ISO 17025 (NATA) accredited for testing and with the ALS Melbourne (Scoresby) laboratory also ISO9001 certified.

The ISO 9001 accreditation encompasses the provision of NATA accredited chemical, microbiological, algal and biological sampling and testing of:

- Waters;
- Wastewater;
- Trade waste;
- Algae and zooplankton.

**ALS employs a multi-layered approach to optimising quality including:**

- Blanks and Duplicates
- Matrix Spikes and Surrogates
- Laboratory controls and Standard Reference Materials
- Analyst comparisons and Blind samples
- Long term participation in international Proficiency Testing programmes
- Final review and approval by a signatory

**Many systems are in excess of the Australian industry standard. Key aspects include:**

- Management of Change (MOC) procedures
- Continual review MDL Studies
- Nationally managed internal audit schedules
- Quality Verification of Solvents, Containers, Rinsate Water, Preservatives and Acids prior to use
- Monitoring of fridges and workplace for potential airborne contaminants.

**ALS policy:**

- Generate scientifically sound and legally defensible data
- Provide high quality testing services in compliance with accreditation and regulatory requirements

Scheduled internal audits are performed on all quality management system elements. System audits are qualitative evaluations of all components of the laboratory systems. They determine if the measurement systems are being used appropriately. Such audits typically involve a comparison of the activities given in the QA Manual with those actually scheduled or performed and are conducted by a Quality Assurance Manager at each facility. Audit findings are used by ALS to improve process performance.

**Staff Accreditations**

The development of staff and provision of industry support is important to ALS. Our team includes:

- >100 Laboratory approved NATA equivalent signatories
- 33 Department of Human Services approved analysts
- 15 NATA technical assessors
- 3 EPA Victoria approved analysts.
Logistics and Maximising Sampling Efficiency

“ALS staff are always courteous, and I’m able to quickly reach analysts for discussions to tailor requirements to suit whatever problem I’m working on.”

With projects that ALS supports reaching every corner of this continent and often outer islands and seas, logistics is very important to ALS. Sample numbers from clients are approaching a million per annum with many having multiple containers. This makes for a lot of bottles.

To support our clients ALS offers the following:

- The largest network of laboratories in Australia (12 NATA accredited) with the largest array of regional support staff and offices (another 7 sites).
- Local pickups and bottle delivery including packaging/bagging into ‘suites’ or sampling locations to improve sampling efficiency.
- The proven ability and add value by locating logistical staff remotely for major projects.

These photos represent identical suites of analyses with old ALS bottles (above) and new bottles (below) highlighting the manual handling benefits.

What is equally important to ALS is that we constantly innovate to improve sampling efficiency for our clients. ALS miniaturisation projects have led the industry for the last decade with significant reduction in volumes.

Key outcomes for clients include:

- Significant manual handling risk reduction
- Improved sampling efficiency on low flow wells
- Improved logistics and reduced freight costs
- Removal of 50L, 44L then 36L eskies and no further purchases of 32L eskies from supply to reduce further strain/sprain risks.

Collectively these changes have cut the weight of samples collected, handled and freighted by ALS clients by ~280,000kgs across Australia in 2012.

ALS is nearing the end of this project for waters however remains focused on the safety and efficiency of field operations and will support our clients through great science and great innovation. If we can facilitate our clients to sample a ground water monitoring event (GME) using a ‘six pack’ esky versus lugging a 26L esky we will do it.

If field efficiency and best practice is important to you, please feel free to talk to us about your challenges so that we can strive to meet your needs and make “last year’s impossible” a reality.
Performing Efficiently and Ethically at all times

ALS is committed at all times to performing duties in efficient and ethical ways.

Compliance

ALS believes that meeting compliance obligations is a responsibility essential to its long-term success. The company is committed to adhering to all legislation relating to ALS operations. All ALS employees are responsible for complying with policies and procedures established to ensure that ALS fulfills requisite legislative requirements. Every employee, contractor, or agent of the company is held accountable to conform to the law and act ethically at all times.

Confidentiality

ALS employees understand the importance of confidentiality and have implemented policies that ensure the protection of client information. Employees are required to sign and follow ethics, conflict of interest, and confidentiality policies. These agreements are required to ensure that all employees are aware of the following items:

- Laboratory policy regarding ethics and the standards of integrity that are expected of them
- The notion that they are free from any undue pressures that might affect the quality of their work

Client confidentiality ensures that procedures for sending test results by mail, facsimile, email, or electronically meet client requirements. Requests for records made by a third party must be accompanied by written consent from the client. All employees assure clients that confidentiality is observed at all times when presenting records.

System Integrity

- Secure, virus-free system, including a firewall to protect data
- Back-up of all data
- Redundancy of major equipment and services
- Professionally managed and maintained
- LIMS (Laboratory Information Management System)
Research and Development, Innovation and Awards

ALS took excellent and prompt care of my requirements with cheerful and professional service.”

FOOD MANUFACTURER

ALS employs dedicated R&D staff with the aim of delivering innovative business outcomes.

Program objectives include:

- Development of new products and services
- Identification of emerging issues within industry and provision of analytical solutions
- Improvement of analytical method precision, accuracy and Limits of Reporting (LORs)
- Improvement of safety and efficiency for clients and staff
- Reduction of the ALS carbon footprint and impact on the environment

R&D procedures, data generation, review and storage, and data validation and verification protocols have been vetted and are fully supported by NATA. This close cooperation with NATA and culture of discipline ensures new services are developed in a controlled and timely manner.

Recent successes of the R&D programme

Analysis of Infectious Enteric Viruses
Enteric viruses such as adenoviruses and enteroviruses are a major cause of gastroenteritis and other infectious diseases and may pose a significant risk to public health. The Australian Guidelines for Water Recycling recommend the use of adenoviruses and enteroviruses as “representatives of viral pathogens” for the validation monitoring of wastewater treatment processes.

NDMA and Extended Nitrosamines
NDMA is of significant interest to the water industry given its ability to pass through water treatment plants and is reported down to part per trillion (ppt) levels. ALS now offers an additional 7 to 8 trace nitrosamines of concern to the water industry.

Cryptosporidium Genotyping
Genotyping is a molecular method to distinguish Cryptosporidium species or genotypes based on their genetic code. This helps identify the relative risk of pathogenic species to humans and was an ALS WRF and USEPA sponsored project towards the development and validation of an international standard for the genotyping of Cryptosporidium.

CARE Award
In 2011 ALS was awarded the inaugural CARE Award for innovation. This was judged across the entire Environmental industry in Australia. ALS testing innovation delivered:

- Improved quality
- OH&S (manual handling) risk reduction
- Improved efficiency and reduced sampling costs
- Reduced carbon footprint
- Reduced waste

In 2013 ALS was again a finalist in the CARE Award with the ‘results to mobile phone’ applications, again demonstrating the ALS’ commitment to innovation leadership.

Super Ultra Trace Pesticides and Herbicides
This extensive range of approximately 100 organic analytes by LC/MS/MS provides clients with some of the lowest LORs (detection limits) available in Australia with many in the part per trillion (ppt) range.

PPCPs, Endocrine Disrupting Compounds & Steroids
Recent global research has identified Pharmaceutical and Personal Care Products (PPCPs), Endocrine Disrupting Compounds (EDCs) and Steroids as contaminants of emerging concern (CECs) to humans, animals and the environment. These are analysed to ppt levels to meet 2008 Australian Guidelines for Water Recycling.

PFOS/PFOA & Extended AFFF’s
This analysis covers the latest additions to the Stockholm Convention, which lists chemicals of significant environmental concern. ALS Leads Australia now reporting 20 AFFF chemicals of concern.

Algal Toxins
ALS has developed a full range of Algal toxin analyses including Cylindrospermopsin, Anatoxin, Microcystin, Saxitoxin and Nodularin groups/chemicals.
Major Clients and Relevant Experience

“The certificates of analysis are always clear and precise. The time frames to get price quotes and samples analysed are excellent.”

ALS has experience, skills, capabilities and a proven track record. A significant number of high profile clients within the environmental industry use ALS as their primary laboratory or for major projects of State or National significance. Our client base includes:

Government & Government Owned Corporations
ALS provides analytical services for the water resources sector to the largest range of Water Authorities and companies in Australia. Select organisations demonstrating the spread of clients include:

- Melbourne Water
- Sydney Catchment Authority
- Department of Water (WA)
- Barwon Water
- Mt Isa Water Board
- ICON Water (formerly ACTEW)
- Desalination Plants – Wonthaggi (VIC), Kurnell (NSW), Gold Coast (QLD)

Major Industry Clients
ALS provides analytical services to a large number of global and Australian mining and oil and gas companies. Select major clients include:

- BHP Billiton
- Rio Tinto
- Santos
- ExxonMobil
- BP Australia
- QGC
- BHP-BMA
- GlencoreXstrata
- Origin Energy
- Chevron

For further information or references please contact ALS management or customer services.
Experience and expertise with many industries

ALS provides a broad range of sophisticated, state-of-the-art services to a wide variety of market segments.

Industries

Aerospace & defence
Agriculture
Civil Infrastructure
Commodity trading
Construction
Consumer Products
Environmental health & safety
Food safety
Marine
Mining & exploration
Oil & gas
Petrochemicals
Pharmaceutical
Power generation
Pulp & Paper
Smelting & refining
Transportation
Water

The hub and spoke nature of the laboratory network within ALS means our capabilities and expertise spans many testing, inspection and certification services.

ALS clients benefit from experts who not only offer the highest levels of service, but can also draw on countless years of experience and knowledge within the ALS ranks.

The following is a guide to the testing and analysis services that ALS is recognised globally for:

Services

Coal Quality
Commodity trade & inspection
Consumer products
Environmental testing
Food safety
Geochemistry

Industrial hygiene
Laboratory design & build
Metallurgy
Oil, fuel & coolant analysis
Oil & gas
Pharmaceutical

Ask your ALS consultant for more information about our other services.
Hydrographics – Remote Telemetry Services

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