



HydroTerra

Environmental Monitoring Specialists

Monitoring Services

Trusted solutions for
Environmental Consultants

*Supporting your projects with accurate, compliant and
integrated real-time monitoring systems*

Why Partner with environmental monitoring specialists?

As a consultant, your success depends on accuracy, compliance and timely delivery. Partnering with a specialised environmental monitoring company enables you to:



Focus on strategy:

Let us handle the field sampling, instrumentation and installation, data management/visualisation and logistics.



Strengthen your deliverables:

Back your site assessments with defensible, standards-compliant data.



Expand your capabilities:

Offer a wider range of services without investing in equipment or in-house technicians.



Win bigger projects:

Collaborate on proposals needing comprehensive and coordinated solutions.



About HydroTerra



'If you can't measure it,
you can't manage it'

HydroTerra is Australia's leading marketplace for environmental monitoring solutions, offering a wide range of samplers, sensors, telemetry systems and data hosting from over 80 trusted suppliers.

Since 2004, we have supported clients nationally and internationally with expert services spanning system design, installation, maintenance, data collection and integration. Delivered by our team of engineers, scientists and technicians.

Our **DataStream™** platform simplifies environmental monitoring systems by combining advanced technology with expert support to deliver reliable and trusted data in the formats you need and provide timely insights to support site assessment and compliance.

We are passionate about knowledge-sharing through our reputable webinar series, personalised advice and support. We are proud of the strong partnerships that make us a trusted name in the environmental monitoring sector.



Marketplace & Rental



Field Services



Monitoring Systems



Workshop, Support & Training



Richard Campbell

Managing Director



Annette Nolan

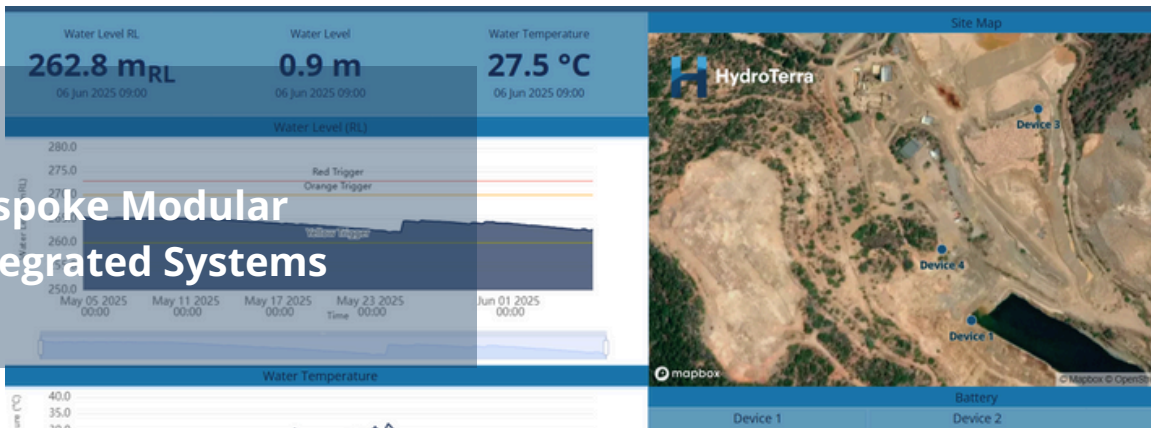
Technical Director

Our core environmental monitoring services

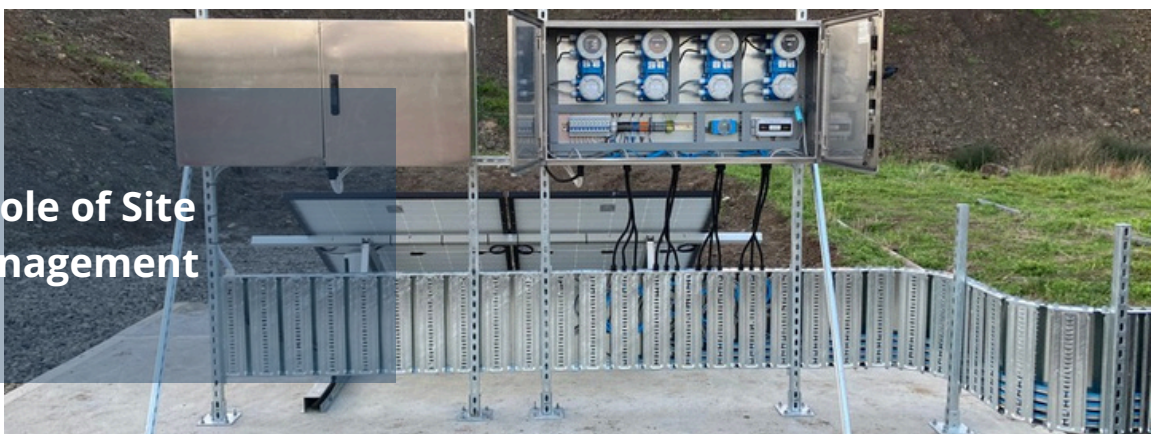
➤ Sampling and Field Data collection



➤ Bespoke Modular Integrated Systems



➤ Whole of Site Management





Sampling and Field Data Collection

Services include:



Groundwater Sampling

Low flow sampling, slug tests and pumping tests.



Surface Water Sampling

Spot measurements, autosamplers, flow gauging and Surfbee drone boat.



Soil Gas Sampling

Passive samplers (Beacon Environmental) and active samplers (SUMMA canisters).



Soil / Agricultural Sampling

Sentek continuous soil moisture and salinity monitoring.



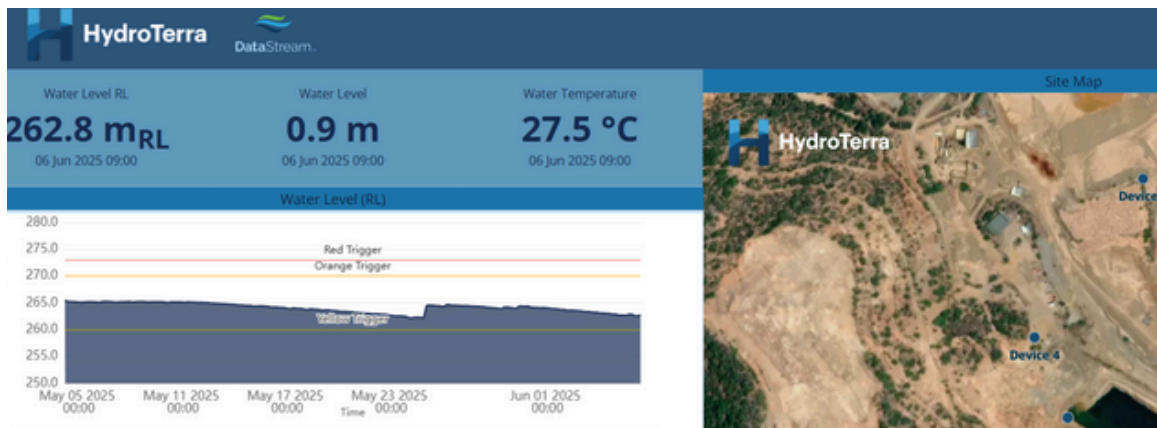
Ground Gas Monitoring

Continuous monitoring (GasClam, Gasflux®), handheld monitoring and integrity testing.



Air Quality / Dust / Noise / Odour / Weather Monitoring

Real-time Aeroqual, Oizom and weather station monitoring.



Bespoke Modular Integrated Systems

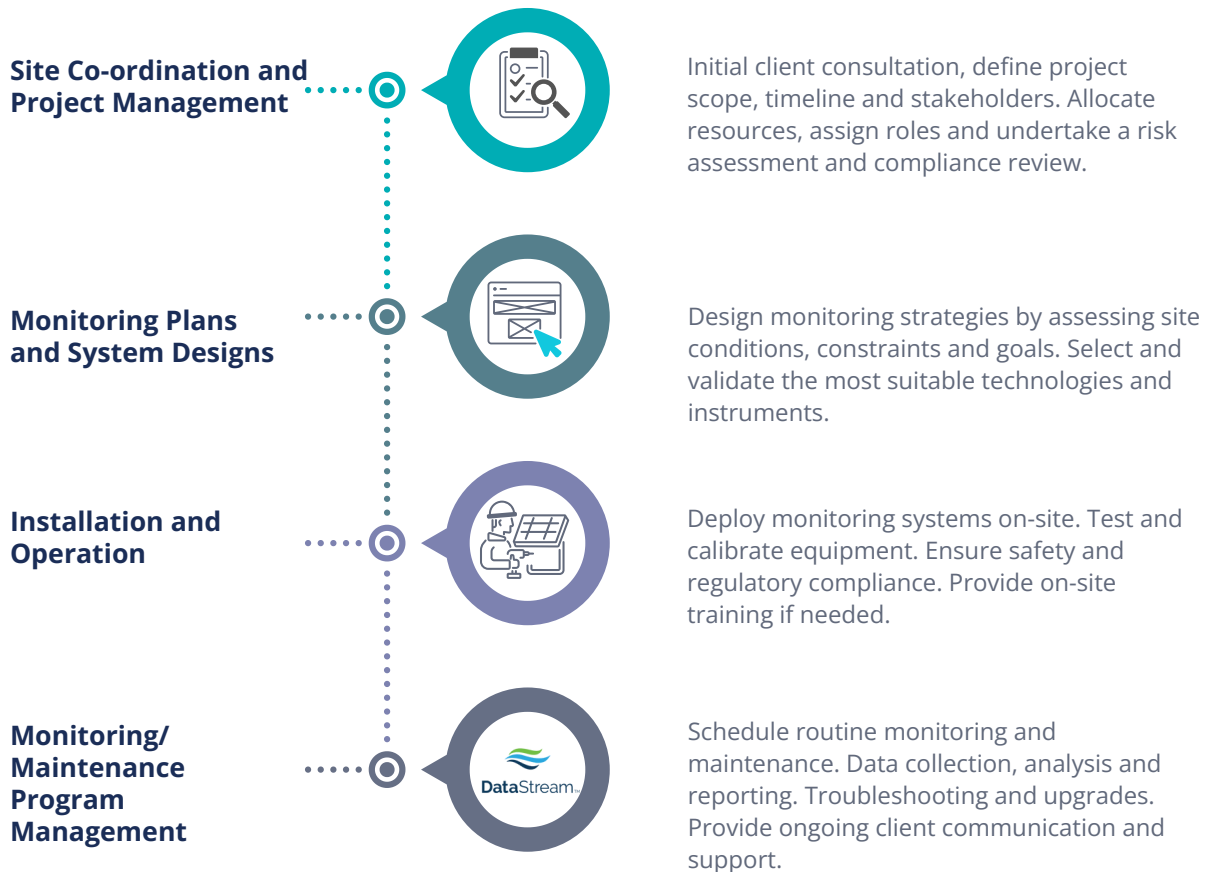
Powered by DataStream™, our systems enable real-time data collection through integration of sensors, remote telemetry units, cloud-based visualisation and data storage.

	Groundwater Sampling	Telemetered data logging of level and water quality sensor deployments. Dedicated groundwater sampling systems and multi-levels.
	Stormwater	Event /first flush autosampler deployments
	Surface Water	Insitu and buoy mounted sensor deployments. Open channel, pipe flow and discharge monitoring. Drone boat sampling services.
	Landfill Cap Performance	Lysimeter and soil moisture monitoring network deployments. Fugitive gas emissions surveys and continuous monitoring (Gasflux [®] and GasClam deployments).
	Effluent Pond Monitoring	Insitu and buoy mounted sensors (water level and quality). Seepage monitoring: vibrating wire piezometers, flow pathway mapping using geophysics.
	Evapotranspiration	Sapflow and dendrometer monitors.
	Air Quality / Dust / Noise / Odour / Weather Monitoring	Continuous monitoring system deployments.
	Site Surveillance Cameras	Remote monitoring systems.




Whole of Site Management

From concept to completion, HydroTerra ensures seamless coordination of all your monitoring needs. Our experts provide ongoing support to optimise the performance and reliability of your monitoring systems.



Tailored technology solutions across sectors

At HydroTerra, we apply a sector-specific approach to selecting and deploying environmental monitoring technologies. Our solutions are chosen for their accuracy, efficiency, scalability and compliance readiness, ensuring they align precisely with the needs of each industry we serve.



Contaminated Land

We support consultants and contractors with high-performance technologies designed for contaminated land site assessment, remediation and compliance monitoring:

Environmental Monitoring Systems (Telemetered and Cloud Hosted):

Groundwater, surface water, air quality, noise, dust, odour and weather station monitoring.

Autosamplers and Flow Gauging:

To support mass flux/mass discharge assessments for PFAS and metals.

Soil Gas Monitoring:

Passive samplers (e.g., Beacon) and active systems (e.g. SUMMA canisters).

Ground Gas Monitoring:

Continuous monitoring via GasClam and Gasflux[®].

Multi-Level Monitoring Systems:

Vertical profiling of soil, gas, groundwater, surface water and associated contaminants.

Pumping Test and Slug Test Services:

Real-time aquifer response monitoring, pumping rates, drawdown pumping test and slug test assessments, and estimation of aquifer hydraulic properties.

Monitoring Well Services:

Full-service bore and well installation, inspection (including down-hole cameras) and ongoing maintenance.

High-Definition Surveillance Systems:

Time-lapse cameras for long-term site observation and security.



Mining

We offer mining operations, such as tailing storage facilities (TSF), high-integrity monitoring systems to manage environmental risk and compliance, understand water balance, improve water use and enhance oversight:

Real-time Monitoring:

Instrumentation for pore pressure, seepage and settlement.

Geophysical Mapping (Willowstick) and Spatial Data Analysis:

Willowstick's data analysis techniques assess and monitor structural integrity of dams and effluent ponds.

Water Recovery and Reuse Systems:

Monitoring of dewatering of tailings and recovered water for reuse in mining operations.

Data and Information Management Services:

Database management, Automated QA/QC reports, Platforms for alarms, data display and data reporting utilising DataStream™ systems.

Automated Compliance Reporting:

Detailed reports on water quality and seepage levels, streamlining compliance process with accurate data recording and reporting.



We offer innovative technologies to landfills to ensure optimal waste management, operational insights and environmental compliance:

Landfill Gas Monitoring:	Continuous methane and VOC detection systems. Landfill gas well installations, integrity testing and flux hood measurement.
Leachate Monitoring:	Sumps, leachate ponds, stormwater ponds, tanks, leachate line flows and discharges.
Leachate Seepage Mapping:	Geophysical mapping tools for detecting leachate migration (Willowstick).
Groundwater Monitoring:	Sampling, level monitoring, seepage, monitoring well installations, low-flow pump installations, multi-level well installations and assessments.
Stormwater Monitoring:	Forecasting, pond level and freeboard monitoring, stormwater discharge monitoring quality and flow.
Air Quality / Dust / Noise / Odour / Weather Monitoring:	Real-time Aeroqual, Oizom and weather station with AI driven data analysis.
Cap Performance Monitoring:	Moisture flux estimations using soil moisture monitoring, soil suction, lysimeters and associated evapotranspiration. Continuous methane and VOC detection systems, integrity testing, gas well installations and walk over assessments.
Landfill Reuse and Rehabilitation Monitoring:	Vegetation monitoring, biodiversity and natural capital assessments.
Remote Pump Control and Automation:	Streamlined leachate pumping, storage and disposal monitoring.



We leverage advanced technologies to accurately monitor, forecast and manage data for water utilities through the following services:

Recycle Water Monitoring:	Sensors, weather station and forecasts combined with software for irrigation scheduling and compliance tracking.
Dam Safety Solutions:	Seepage and leakage detection with vibrating wire piezometers combined with high-resolution geophysical mapping of flow paths.
Long-Term Monitoring Infrastructure:	Modular systems with redundancy and cloud integration.
Satellite and Spatial Analytics:	Remote sensing for catchment health, algal blooms and evapotranspiration.
Automation and Control Systems:	SCADA-integrated platforms for pump stations, dosing and flow control.
Air Quality monitoring:	Real-time odour and weather station monitoring.
Laboratory Data Integration:	Time-series analysis combining in-field and laboratory-based measurements.

We also work in others sectors such as; Agriculture, Applied Research, Construction, Infrastructure and Natural Resource management. Each solution is chosen with precision and accuracy to ensure regulatory compliance, data integrity and operational efficiency across all projects.

DataStream™ in Action



DataStream™
by HydroTerra

1 Design – Risk-Responsive, Site-Specific System Planning

Our monitoring systems are engineered through close consultation with site operators to identify monitoring requirements for both their facilities and the broader site, ensuring system design reflects operational priorities and environmental risks. Every monitoring plan includes design documents that define measurement parameters, sensor placement, data integrity requirements and system thresholds, all managed under HydroTerra's ISO-accredited quality system.

3 Operate – Service Support and System Reliability

HydroTerra ensures ongoing system performance through structured Service Level Agreements (SLAs). Our technicians perform preventative diagnostics and respond to system issues guided by our ISO-accredited processes. Each SLA is tailored to client needs, ensuring that support levels, response times and routine health checks are aligned with monitoring goals.

5 Manage – Centralised Data Access and Configuration

DataStream™ consolidates all environmental data - real-time, manual and historical - into a secure, customisable web platform. Depending on scoped requirements, users gain access to tailored dashboards, GIS mapping tools, metadata management and role-based permissions, all designed to streamline access and support seamless reporting.

2 Supply – Equipment, Installation and Integration

We draw from our extensive partner network to source the most suitable sensor and telemetry technologies (e.g. water pressure transducers, vibrating wire piezometers, soil moisture, rain gauges, water quality sensors and buoy-based water quality sondes). Systems are fully configured, tested and integrated before delivery, ensuring a streamlined deployment process even in remote or harsh environments. Our experienced technicians can install onsite.

4 Monitor – Real-Time System Feedback and Network Visibility

DataStream™ enables ongoing visibility across all connected monitoring systems, providing real-time feedback, alarm notifications, and system tracking to ensure continuous awareness of site conditions. HydroTerra's internal monitoring prowess empowers our technicians with full oversight of DataStream™ platforms and services, enabling proactive monitoring, diagnostics and rapid issue resolution.

6 Reporting – Compliance-Ready Reporting Framework

DataStream™ transforms raw data into meaningful insights through scheduled, automated, distribution-ready reporting templates. Whether for compliance, OH&S or operational review, each report is tailored to summarise key metrics to ensure decision-makers receive targeted insights on operational or compliance performance.

Sites under our watch



HydroTerra is currently active across multiple states in Australia, principally Victoria, Queensland, South Australia, and the ACT. Delivering environmental and operational monitoring across multiple sectors.

Example projects include:

- Deep groundwater and gas sampling for Jacobs in Gippsland (Victoria)
- Groundwater monitoring for Origin Energy in Surat Basin (Queensland)
- Integrated soil moisture, climate, and sapflow monitoring at Melbourne Polytechnic (Victoria)
- Soil moisture sensor installations at NMIT Ararat (Victoria) and Point Wilson (Victoria)
- Pump control systems at Ridley Corp in South Australia

360+

**Sites monitored
across Australia**

Our Marketplace



Since 2004, HydroTerra has partnered with leading environmental, engineering and industrial organisations to deliver the most effective and reliable environmental monitoring solutions available.

Our Marketplace is the culmination of over two decades of industry experience. A curated, one-stop shop offering a wide range of high-quality environmental monitoring technologies, data systems and services. It brings together more than 60+ globally recognised brands, giving our clients access to the latest innovations in sensors, telemetry, water and air quality monitoring, soil and weather stations and more.

By providing unbiased, technology-agnostic recommendations, we ensure that every solution is tailored to your specific application whether you're working in groundwater, mining, waste, construction or natural resource management.

HydroTerra's Marketplace is more than just products it's backed by expert support, integration services, and our powerful DataStream™ platform, enabling seamless data capture, analysis and compliance reporting.

430+

**Different products
available**

"I'm highly impressed by HydroTerra and the service they have provided me by supplying equipment and remote support. I have also really enjoyed the online webinars which are very educational"

Customer Testimonial

Why HydroTerra?



Total Project Delivery:

From design to deployment, maintenance to reporting.



Flexible & Technology-Agnostic:

Seamless integration with any sensor or telemetry system.



ISO-Accredited Quality:

Systems built and managed under rigorous operating procedures.



DataStream™ Services:

Secure, scalable and built for insight-driven decisions.



Expertise You Can Trust:

A team of scientists, engineers and project managers with deep industry knowledge.

HydroTerra is your behind-the-scenes environmental monitoring partner using advanced technology, systems, and expertise to help you deliver results with confidence. Our integrated solutions combine monitoring equipment, geophysical mapping, water recovery technologies, and automated reporting platforms. With HydroTerra, you gain reliable data and actionable insights to achieve your environmental objectives with accuracy and efficiency.

What our clients say



Wollert Landfill

James Downs
Landfill Construction Compliance Manager
Heidelberg Materials Australia

"Working with the team at HydroTerra has been a great experience from start to finish. Having a single point of contact made everything simple, and their technical and operational knowledge meant they quickly understood the scope of our project. The after-sales service is quick and reliable, which gave us confidence long after installation.

They deliver quality solutions that meet our needs today and prepare us for tomorrow. The web-based platform is an excellent feature, with a customised interface which triggers alarms that can notify our staff instantly of any events.

We have peace of mind knowing only high-quality equipment is used, backed by local support from a company that understands our industry. We are proud to partner with HydroTerra and highly recommend their services."



The Point at Point Lonsdale

Doug Vallance
Development Director
Moremac

"Hydroterra worked on the complex waterway residential project called The Point at Point Lonsdale for over 20 years, from its initial creation to full completion, operation and transfer to the City of Greater Geelong.

Their role in all aspects of water quality testing and monitoring, as well as working collaboratively with the project team and all stakeholders, has been crucial in the great success of this award-winning project, especially in respect to problem solving and achieving design outcomes.

I would gladly recommend Hydroterra for future roles."



Our team includes instrumentation engineers, environmental scientists, environmental engineers, hydrogeologists, technicians and project managers, not to mention our professional services team.



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Contact Us



Website

hydroterra.com.au



Phone

03 8683 0091



E-mail

info@hydroterra.com.au



LinkedIn

[@hydroterra-pty-ltd](https://www.linkedin.com/company/hydroterra-pty-ltd)



HQ address

Unit 42/328 Reserve Road, Cheltenham,
Victoria 3192