Version 1.0 (24/02/20)

HydroTerra

Environmental Monitoring Specialists

RENTAL CATALOGUE

Equipment you need when you need it

HydroTerra has grown to become one of the leading providers of monitoring equipment for environmental monitoring.

HydroTerra has a world-class fleet of equipment backed by a strong team that combine technical and applied knowledge to provide advice and support on a range of rental products. These include datalogging sensors, handheld monitoring equipment, sampling technologies and telemetry communications for small to large monitoring systems.

Top class service, gold standard equipment

We have a reputation for supplying the latest equipment accompanied by top class service. We supply customers all over Australia to ensure rapid access to equipment for their field requirements, both for short- and long-term deployments.

We have flexibility in our rental costing models to allow project specific quoting to fit the measurement and client budget requirements for these projects.

Application for our rental equipment are diverse, ranging from:

- Natural resource management
- Mining and quarrying
- Coal seam gas
- Landfill
- Research
- Contaminated land
- Infrastructure

Our specialised equipment includes:

Groundwater sampling
Low and high-flow kits | Water level meters | Pumps

Ground gas monitoring
Inspectra Laser | Gasclam | Ambisense | QRAE | MiniRAE

Soil profiling and sampling
Augers | Soil moisture systems

Water quality monitoring
Handheld water quality meters | Sondes | Level Loggers

CONTACT OUR SPECIALIST TEAM FOR MORE INFORMATION:

(03) 8683 0091 RENTALS@HYDROTERRA.COM.AU

DataStream™

New Equipments available at Hydroterra's fleet.

Equipment	Description
Dust	Aeroqual Series 500 – Portable Air Quality Monitor. Aeroqual Series 500 hand held with PM2.5 and PM10 sensor head. Configurable with 28 different gas and particle sensors, the Series 500 is the ultimate solution. Log data to the onboard memory and download data using the free software.
GVP Kit w/Dedicated Tips and Retract-A-Tip w/o Drill	AMS GVP kits use an AMS slide hammer or an electric rotary drive hammer and GVP drive extensions to insert a stainless steel GVP tip to the desired sampling depth. Fluoropolymer tubing is attached to a barb fitting on the GVP tip for remote sampling from the surface. Two GVP tips are available for use with AMS GVP kits – dedicated gas vapor tips, and the AMS Retract-A-Tip.
Aquaread AP-700, AP-2000, AP-5000 and AP-7000.	Aquaread range of probes are designed specifically for water quality monitoring. Our probes come with the key sensors included such as pH, ORP, conductivity, dissolved oxygen, temperature, Depth, ODO, Turbidity, EC and Chlorophyll.
Downhole camera 300m	Downhole camera Underwater Viewing System 300m inspection camera is a cost-effective way for people performing well inspections, maintenance, and installation to do their jobs quickly and accurately.

NEW!

NEW!

NEW!

NEW!

GROUNDWATER SAMPLING

Groundwater Sampling

Equipment	Description
Low Flow Sampling Kits <70m	• Solinst pneumatic controller • 12V compressor or gas bottle (D size; 6kg CO_2*) and regulator • Pneumatic hose 300psi/2068 kPa • QED Bladder Pump • Solinst Tagline (marked interals or unmarked pump suspension cable on reel • Water level meter
Deep Low Flow Sampling Kits <150m	• Solinst pneumatic controller • Gas bottle (D size; 6kg CO_2*) • Regulator with pneumatic hose (300psi/2068kPa) • Solinst 407 Bladder Pump/408 Double Valve Pump (5/8", 1" or 1.66") • Solinst tagline (marked intervals or unmarked pump suspension cable on reel • [Optional] YSI Water Quality Meter
Mega Monsoon Pump (12V, Stainless Steel)	The SS Mega Monsoon pump is capable of pumping up to 60m (200 ft) from ground level by simply connecting to a 12V battery. Its reliable design is suitable for continuous purging of groundwater wells. [Rental does not include motor unit]
Mega Monsoon Motor	Motor module for the SS Mega Monsoon pump.
Solinst 410 Peristaltic pump (12V)	• Silicon tubing not included, please see consumables list • [Optional] 12V battery

Equipment	Description	
Solinst 425 Discrete Interval Sampler	The 425 Discrete Interval Sampler obtains no purge groundwater samples from below product layers, within product layers, and for sampling at discrete depths in a well. It is pressurized with a hand pump before entering the well. No water flows through the sampler on the way down the well. When the pressure is released, the sampler fills directly from the sampling zone.	
Waterra Power Pack (PP1)	The Waterra pump can lift water from over 60m depths using the standard flow interial pump system (footvalve and tubing available separately). With a compact design it can easily fit into a backpack frame	
Handheld Vacuum Pump	MITYVAC Selectline Pump: Pressure and vacuum are created on the squeeze stroke for superior accuracy and control, includes durable, accurate compound vacuum/pressure gauge with pinned connection for 360° rotation.	
Power source	12V DC battery and 12V battery charger	
Suspension cable/tagline	The 103 Tag Line has a laser marked cable or tape, with a stainless steel tag weight on the end. The weight can be clipped off, allowing the reel mounted, cable or tape to be used as a sup-port (for bailer, pump and packer deployment). Available in 30m, 60m, 150m, 300m (with power reel).	

Equipment	Description
Metal detector	Metal detector Model: SW-238. Depth of searching measured in air... for a coin approx. 15 to 20 cm, for a metal piece 10x10cm approx. 35 to 40 cm, for a metal piece 50x50cm approx. 70 to 80 cm. Diameter of searching coil 25 cm. This product meets the requirements of the guideline 89/ 339/ EEC.

WATER QUALITY MONITORING

Water Quality Measurement

Equipment	Description
Handheld Multiparameter Meter	YSI Pro+ with flow cell. Measures: conductivity, ORP, pH and temperature, dissolved oxygen. [4m cluster cable as standard, other lengths available on request]
Aquaread AP-700, AP-2000, AP-5000 and AP-7000.	Aquaread range of probes are designed specifically for water quality monitoring. Our probes come with the key sensors included such as pH, ORP, conductivity, dissolved oxygen, temperature, Depth, ODO, Turbidity, EC and Chlorophyll.
Multiparameter Sondes (with logging capacity)	Eureka Manta2. Measures: dissolved oxygen, conductivity, turbidity, temperature, pH and ORP. [Optional DatStream for data visualisation] Aquaread Aquaprobe 5000: Measures: pH, ORP, Temp, ODO, Turbidity, EC, Chlorophyll
EC/Level/Temp Datalogger	Solinst 3001 LTC level, temperature and conductivity datalogger M10 (maximum submergence 10m) or M30 (maximum submergence 30m)
Water level logger	Solinst 3001 Levelogger for measuring level and temperature (available in 10m and 30m maximum submergence models.)

NEW!

Equipment	Description	
Barometric pressure logger	Solinst 3001 Barologger (maximum submergence 1.5m)	
Communication cables for levelloggers	Solinst direct read cable (available in 15m and 25m)	
Handheld levelogger data reader	Solinst Optical USB Reader for download of data from leveloggers.	
Levelogger telemetry	Solinst Levelsender for remote access to levelogger and barologger data	
Bluetooth data connector	Solinst App Interface – this hand-held download device, uses Bluetooth wireless technology to connect a Solinst datalogger to your Apple phone/ iPad device. Once connected, you can view data and program the datalogger using the Solinst Levelogger App.	

Equipment	Description
Vented levelogger	Solinst NEW vented water level data logger comes with a 30m or 76m vented cable and hanger. The LevelVent wellhead is required, with two options being the PC cable or SDI-12/RS232 connection types.
Automated water sampling	ISCO 6712 Portable Sampler for collection of up to 24 unattended samples and input of independent SDI-12 sensors, including flow and water quality

Gas Monitoring

Gas Monitoring

Equipment	Description	
Inspectra Laser	The Inspectra Laser is a portable gas leak detector using highly sensitive laser spectroscopy. The device can detect Methane either on a scale of 0 -10,000 ppm or 0 – 100% gas scale.	
Mini Rae 3000	Delivers the most advanced VOC monitoring capabilities on the market. With a photoionization detector (PID) that has an extended detection range from 0-15,000 ppm built-in correction factors for more than 200 compounds • 1 filter included	
QRAE III and II LEL Sensors	The QRae III and II Multi Gas Monitor 3 Gas • 1 Filter included	
Gas Alert Micro 5 PID Multi Gas Detector	The Micro 5 simultaneously monitors up to 5 atmospheric hazards with an integrated motorized pump for remote sampling.	
GA 5000	The GA5000 Landfill Gas Monitor • Methane (CH_4) • Oxygen (O_2) • Carbon Dioxide (CO_2) • Carbon Monoxide (CO) as Standard • 1 Filter included	

Equipment	Description	
GASCLAM	GASCLAM *in-situ* Landfill Gas Monitor Suitable for 50mm boreholes. • Continuous un-manned data collection • Monitors methane, oxygen, carbon dioxide, hydrogen sulphide and VOCs [Optional] • Also includes temperature, borehole and atmospheric pressure • DataStream enabled [Optional] that allows view the data in real time anywhere and anytime.	
AmbiSense	Ambisense -The AmbiSense device is capable of measuring gas parameters continuously and can be solar powered; connecting to any well head fitting. Sensors include: • CH_4 • CO_2 • CO • Flow • Temperature/humidity/pressure	
Well integrity testing	Ion Science Gas Check G3 Detector. Comes with: • Helium gas bottle • Hood • Hoses • Regulator • Shroud	
GVP Kit w/Dedicated Tips and Retract-A-Tip w/o Drill	AMS GVP kits use an AMS slide hammer or an electric rotary drive hammer and GVP drive extensions to insert a stainless steel GVP tip to the desired sampling depth. Fluoropolymer tubing is attached to a barb fitting on the GVP tip for remote sampling from the surface. Two GVP tips are available for use with AMS GVP kits – dedicated gas vapor tips, and the AMS Retract-A-Tip.	NEW!

WATER LEVEL MEASUREMENT

Water Level Measurement

Equipment	Description	
Temperature/level/ conductivity meter	Solinst 107 TLC Meter. Measures: • Temperature • Level • Conductivity • 100m tape	
Oil/water interface meter	Solinst 122 Interface Meter. Available in 30m or 60m tape length.	
Well Sounder Pro 2010 Kit	This portable handheld unit uses sound waves to measure the distance from the top of the well to the water level. This eliminates the need to lower anything into the well. Unlike standard water level tapes these acoustic meters are free from well contamination issues, there is no clean up and nothing to get stuck in the well.	
Well Watch 700	The Well Watch 700 is the worlds first and only commercial grade sonic water level indicator designed for municipal, agricultural, and oil/gas applications. Sonic sensors are externally mounted so there is nothing to lower into the well allowing it to operate on wells containing caustic water, oil or pressurized gas.	
Tagline	The 103 Tag Line has a laser marked cable or tape, with a stainless steel tag weight on the end. The weight can be clipped off, allowing the reel mounted, cable or tape to be used as a support (for bailer, pump and packer deployment). Available in 30m, 60m, 150m, 300m (with power reel).	

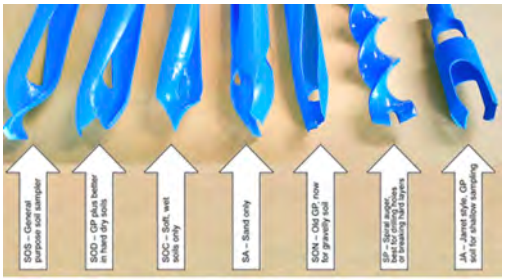
SOIL, DUST AND WEATHER

Borehole condition inspection equipment

Equipment	Description
Downhole camera	Wohler VIS 350 for 30m Underwater Viewing System (Available in 30m) and 300m Downhole camera.

Soil monitoring equipment

Equipment	Description
Soil Augers	Dormer and Sentek soil augers. Available with the following heads:
Soil moisture	Sentek Drill and Drop probe installation kit



Soil, Dust and Weather

Equipment	Description
Dust	DataStream Dustmote^^ (Optical Particulate Monitor) (DataStream enabled)
Dust	Aeroqual Series 500 – Portable Air Quality Monitor. Aeroqual Series 500 hand held with PM2.5 and PM10 sensor head. Configurable with 28 different gas and particle sensors, the Series 500 is the ultimate solution. Log data to the onboard memory and download data using the free software.
Weather	DataStream Weather Station (Wind, TPU, Rain) (DataStream enabled)

DataStream Telemetry

Telemetry system	Base Telemetry Package^^ includes; Solar panel, complete enclosure with DataStream RTU 3G (DataStream enabled). In-house testing and assembly also included. [Optional: installation]

Terms and Conditions

The following are the terms and conditions associated with the hiring from HydroTerra:

Urgent Bookings:
For bookings received after 10am for same day pickup or delivery, a $50 surcharge will be applied.

Instrument Calibration:
All HydroTerra instruments are subject to calibration/check testing prior to dispatch, however the hirer is responsible for ensuring appropriate calibration prior, during and following the use of an instrument. HydroTerra will carry out regular maintenance and repairs due to ordinary wear. HydroTerra under no circumstances will be responsible for the validity of instrument readings.

Equipment Repairs & Cleaning:
Prior to the dispatch of instruments, HydroTerra inspects and cleans instruments to ensure satisfactory performance. The hirer is to follow instrument maintenance guides or instructions, which are provided by HydroTerra. Any failure to clean and decontaminate instruments will incur additional costs based on $30 for every 15 minutes (or part thereof) required to carry out repairs and decontamination.

Damage or Loss:
The hirer is responsible for all financial liabilities associated with instrument loss or damage during incorrect usage, possession or freight, and HydroTerra must be notified immediately any instrument is lost or damaged. The hirer assumes all financial liability for loss and damage of equipment due to misuse, abuse or accident.
The Customer accepts full responsibility to guard the equipment against theft, damage or negligence until it has been returned to HydroTerra. In respect to theft, damage or loss of equipment the rental/hire of the equipment shall continue until the item has been adequately repaired (as deemed by HydroTerra) or the replacement cost has been paid by the customer to HydroTerra.

Replacement of Malfunctioning equipment:
In the event of instrument failure or malfunction, HydroTerra must be notified immediately, and a replacement will be shipped if available, if the instrument problem is not able to be rectified quickly and easily. Malfunctioning instruments are to be immediately returned to HydroTerra. Costs for road freight in such circumstances will be covered by HydroTerra; if airfreight is required additional charges are the responsibility of the renter.

Freight & Handling Conditions & Charges:
HydroTerra will dispatch rental instruments using a pre-paid express service, which will be invoiced as freight charges. The return of instruments and associated freight charges is the responsibility of the hirer unless arrangements have been made prior with HydroTerra. Any loss or damage to instruments during shipment from the hirer to HydroTerra is the responsibility of the hirer. HydroTerra must be notified immediately should any shipment problems occur. The hirer must ensure that they are contactable by phone on the day of dispatch and HydroTerra must be contacted by 12.00 pm the day before if there are any changes to the agreed day of dispatch, otherwise cancellation fees will apply including freight charges.

Liability:
Under no circumstance is HydroTerra liable for any damage, including financial losses, instrument losses, associated damage to other equipment/instruments, replacement instrument charges or downtime. Hydro-

Terra is not responsible or liable for any loss or damage of a hirer's business, property, injury or death. HydroTerra is indemnified by the hirer from any claims arising from, and associated with the hiring of instruments, including legal fees and charges.

Rental Period:
The hiring period commences on the date indicated on the Rental Order Confirmation Form. The duration of the hire is based on the date the Instrument(s) are returned to HydroTerra. Instrument(s) returned after 12 noon will incur the additional hire cost for that day. There is no charge for equipment held over the weekend, and the minimum hiring period is 1 day. Any extension of the hire period must be approved by HydroTerra in advance by email to rentals@hydroterra.com.au.

Daily rental rate is based on a 24-hour period; Weekly rental rate is based on a 7-day period; Monthly rental rate is based on a 4-week period

Payment Terms:
Payment terms are either in advance or on account, net 30 days from date of invoice. HydroTerra reserves the right to suspend shipments to customers whose accounts are overdue.

Early Cessation:
Notwithstanding the rental period, HydroTerra expressly reserves the right to early cessation, which may be exercised on demand and at the absolute discretion of HydroTerra. In the event that HydroTerra so demands the customer shall forthwith return the equipment to HydroTerra. The applicable rental shall be adjusted and payable on a pro rata basis. For the purpose of pro rata a day shall be any day excluding Saturday and Sunday and a public holiday in the event that the business does not continue. A week shall be seven days and a month shall be 28 days

Customer Covenants:
The Customer agrees with HydroTerra that:

- The equipment shall remain the property of HydroTerra unless otherwise agreed in writing from HydroTerra;
- The Customer shall not sell, charge, pledge or part with possession of the equipment;
- The Customer shall use the equipment in a careful and proper manner and not interfere or tamper with the equipment or let any other person / persons do so;
- The Customer shall notify HydroTerra immediately if any judgement or order is levied against the Customer or the property of the Customer or if a petition is presented for the liquidation of the Customer or a receiver is appointed or a scheme of arrangement is proposed;
- The Customer shall permit HydroTerra or its agents or servants to enter the premises where the equipment is located at all reasonable times in order to inspect the equipment and carry out repairs to the equipment;
- The Customer requires and will use the equipment for business purposes only;
- The Customer accepts full responsibility to guard the equipment against theft, damage or negligence until it has been returned to HydroTerra. In respect to theft, damage or loss of equipment the Rental / Hire of the equipment shall continue until the item has been repaired by HydroTerra or the replacement cost has been paid by the Customer to HydroTerra.

Warranty:
HydroTerra warrants that each item of equipment rented/ hired is of merchantable quality and fit for purpose for which it was designed and undertakes to repair or replace equipment, which has failed due to defects in materials or workmanship. Without limiting the generality of the foregoing the aforesaid warranty does not extend to repair or replacement of equipment occasioned by:

- The failure of the Customer to comply with any instructions or literature supplied with the equipment relat-

ing to the storage, installation, operation or servicing of the equipment;

- Faulty installation or workmanship by a third party, which causes damage to the equipment;
- The misuse, neglect or alteration in any manner by the Customer, its agents or employees or any third party.

Limitation of Liability:
The Customer acknowledges that it has not relied upon any statement by HydroTerra in respect of the Customers purpose for the utilisation of the equipment and that HydroTerra is not responsible or liable for the failure of that equipment to perform for the purposes required by the Customer nor for any loss or damage alleged to have arisen from delay in delivery, malfunction or failure of any of that equipment.

Long Term Hire:
The Customer agrees that if a hire rate discount has been provided for long term hires and the customer returns the equipment prior to the nominated end date HydroTerra reserved the right to charge the customer full value for the period of hire without discount.

Ownership of Equipment
The Customer acknowledges that HydroTerra owns the Equipment and in all circumstances HydroTerra retains title to the Equipment (even if the Customer goes into liquidation or becomes bankrupt during the Hire Period). The Customer's rights to use the Equipment are as a bailee only.
Except in the circumstances set out below, the Customer is not entitled to offer, sell, assign, sub-let, charge, mortgage, pledge or create any form of security interest over, or otherwise deal with the Equipment in any way. In no circumstances will the Equipment be deemed to be a fixture.

PPSA
The Customer consents to HydroTerra affecting and maintaining a registration on the register (in any manner HydroTerra considers appropriate) in relation to any security interest contemplated or constituted by this Hire Agreement in the Equipment and the proceeds arising in respect of any dealing in the Equipment and the Customer agrees to sign any documents and provide all assistance and information to HydroTerra required to facilitate the registration and maintenance of any security interest. HydroTerra may at any time register a financing statement or financing change statement in respect of a security interest (including any purchase money security interest). The Customer waives the right to receive notice of a verification statement in relation to any registration on the register of a security interest in respect of the Equipment.

The Customer undertakes to:
(a) do anything (in each case, including executing any new document or providing any information) that is required by HydroTerra (i) so that HydroTerra acquires and maintains one or more perfected security interests under the PPSA in respect of the Equipment and its proceeds, (ii) to register a financing statement or financing change statement and (iii) to ensure that HydroTerra's security position, and rights and obligations, are not adversely affected by the PPSA;
(b) not register a financing change statement in respect of a security interest contemplated or constituted by this Hire Agreement without HydroTerra's prior written consent; and
(c) not register, or permit to be registered, a financing statement or a financing change statement in relation to the Equipment in favour of a third party without HydroTerra's prior written consent.

If Chapter 4 of the PPS Act would otherwise apply to the enforcement of a security interest arising under or in connection with this Hire Agreement and (a) section 115(1) of the PPS Act allows for the contracting out of provisions of the PPS Act, the following provisions of the PPS Act will not apply and the Customer will have no rights under them: section 95 (to the extent that it requires the secured party to give notices to the grantor); section 96; section 118

(to the extent that it allows a secured party to give notices to the grantor); section 121(4); section 125; section 130; section 132(3)(d); section 132(4); section 135; section 142 and section 143; and(b) section 115(7) of the PPS Act allows for the contracting out of provisions of the PPS Act, the following provisions of the PPS Act will not apply and the Customer will have no rights under them: section 127; section 129(2) and (3); section 130(1); section 132; section 134(2); section 135; section 136(3), (4) and (5) and section 137.

Unless otherwise agreed and to the extent permitted by the PPSA, the Customer and HydroTerra agree not to disclose information of the kind referred to in section 275(1) of the PPS Act to an interested person, or any other person requested by an interested person. The Customer waives any right they may have, or but for this clause may have had, under section 275(7)(c) of the PPS Act to authorise the disclosure of the above information.

For the purposes of section 20(2) of the PPS Act, the collateral is Equipment including any Equipment which is described in any Hire Schedule provided by HydroTerra to the Customer from time to time. This Hire Agreement is a security agreement for the purposes of the PPS Act.

HydroTerra may apply amounts received in connection with this Hire Agreement to satisfy obligations secured by a security interest contemplated or constituted by this Hire Agreement in any way HydroTerra determine in their absolute discretion.

The Customer agrees to notify HydroTerra in writing of any change to their details set out in the Credit Application, within 5 days from the date of such change

Sundry:
These Terms and Conditions set forth constitute the entire agreement between HydroTerra and the Customer with respect to the equipment and shall not be amended except in writing signed by both parties and the Customer does acknowledge and agree that all other warranties or the suitability of the equipment for any particular use or purpose whether implied or statutory are hereby excluded.

Terms and Conditions of Sale
For full term and conditions of Sale please refer to our website: www.hydroterra.com.au/terms-conditions/

In these terms and conditions HydroTerra means HydroTerra Pty Ltd. and the customer means the individual or organisation placing an order for goods or services with HydroTerra.

Prices:
Unless stated otherwise prices quoted are in Australian dollars. Rental, insurance and freight costs, as well as credit card, cleaning & urgent booking surcharges, are all quoted separately. Any alterations either before acceptance or during the currency of the contract shall be to the customer account, unless otherwise agreed in writing.

Quotations:
Unless otherwise stated, quotations will remain open for acceptance for a period of thirty days (30) after which they will be subject to confirmation by HydroTerra before acceptance of an order. In the event of a change to the foreign currency exchange rate of greater than 2% HydroTerra reserves the right to amend the quotation.