Capability Statement

PENTIUM
TEST PUMPING

pentiumtestpumping.com.au

Providing comprehensive groundwater solutions for aquifer characterisation, managed aquifer recharge and aquifer storage and recovery.

About Pentium Test Pumping

Pentium Test Pumping (PTP) is a leading provider of comprehensive groundwater solutions for the Australian groundwater industry. With a strong commitment to quality, innovation and customer satisfaction, we specialise in aquifer characterisation testing and injection testing services. Our robust scientific data empowers clients to make informed decisions and effectively manage their groundwater resources.

From aquifer characterisation to managed aquifer recharge and aquifer storage and recovery, we deliver tailored solutions that meet your project requirements.

Contact us today to discuss your project requirements and experience the PTP difference.

Service Offering

- Aquifer Characterisation testing for comprehensive understanding of aquifer properties.
- Injection testing for managed aquifer recharge to maximise groundwater replenishment.
- Injection testing for aquifer storage and recovery to ensure efficient water storage and retrieval.
- Data analysis and interpretation to provide meaningful insights for decision-making.
- Regulatory approvals and compliance support to navigate complex regulatory requirements.

Pentium Test Pumping (PTP) is your trusted partner for comprehensive groundwater solutions. We specialise in aquifer characterisation testing, managed aquifer recharge and aquifer storage and recovery. With our expertise, state-of-the-art equipment and commitment to excellence, we deliver accurate and reliable data that empowers you to make informed decisions and optimise your groundwater resources.

Partner with PTP to benefit from our tailored solutions and contribute to sustainable water management practices.

The information provided in this Capability Statement is a summary of Pentium Test Pumping's services and capabilities. For more detailed information and to discuss specific project requirements, please contact our team.

Key Benefits and Capabilities

Aquifer Characterisation Testing

Our expert team utilises advanced techniques and state-of-the-art equipment to accurately assess aquifer properties, including water levels, flow rates, and recharge rates. This data enables clients to understand the behaviour and characteristics of their aquifer systems, facilitating effective resource management and planning.

Injection Testing for Managed Aquifer Recharge

PTP provides comprehensive injection testing services to support managed aquifer recharge projects. We evaluate the suitability of injection wells, determine optimal injection rates and monitor the behaviour of injected water within the aquifer. This information assists clients in implementing sustainable water management strategies and maximising the potential for groundwater replenishment.

Pumping Rate Determination and Well Suitability

We determine optimal pumping rates and identify the most suitable pumps for wells, ensuring efficient operations and optimal project performance.

Well Capability Assessment

We evaluate a well's capability to meet project supply requirements, providing clients with insights for effective resource allocation.

Accurate Long-Term Water Level Predictions

Our data enables clients to accurately predict long-term changes in water levels within wells, aquifers and mines, facilitating effective planning and resource management.

Dewatering Solutions for Mining Operations

Our expertise helps determine the optimal pumping rates required to dewater mines to specific bench levels within defined timeframes, facilitating successful mining operations.

Environmental Impact Evaluation

We assess the effects of pumping on nearby environmental features such as creeks, wetlands, and neighbouring groundwater users, promoting sustainable and responsible water management practices.

Climate Variability Analysis

By assessing the effects of environmental changes, such as rainfall variations, on waterwell performance, we help clients understand and manage potential impacts on their dewatering rates.

Injection Testing for Aquifer Storage and Recovery (ASR)

We offer specialised injection testing for ASR projects, allowing clients to store excess water during wet periods and recover it during times of high demand. Our expertise in ASR testing helps clients assess the feasibility, efficiency and effectiveness of their storage and recovery operations, ensuring sustainable water supply solutions.

Data Analysis and Interpretation

PTP employs rigorous statistical analysis and advanced modelling techniques to provide clients with meaningful insights from collected data. Our experienced hydrogeologists and scientists interpret the data to facilitate accurate predictions, informed decision-making and compliance with regulatory requirements.

Regulatory Approvals and Compliance

We assist clients in navigating the complex regulatory landscape by providing the necessary data, analysis and documentation required for regulatory approvals. Our comprehensive approach ensures compliance with environmental regulations and promotes sustainable groundwater management practices.

Timely and Cost-Effective Solutions

PTP is dedicated to delivering high-quality services within agreed timelines and budgets. Our efficient project management processes, experienced team and state-of-the-art equipment enable us to provide timely and cost-effective solutions to meet our clients' needs.

Business Approach

At PTP, we pride ourselves on delivering exceptional customer service, transparency and comprehensive solutions tailored to our clients' needs. Our experienced team, equipped with industry and regulatory expertise, has been serving the groundwater industry for over a decade. We prioritise complete transparency and responsive communication, leveraging cloud-based software for efficient project management.

Health, Safety and Environment

PTP is committed to prioritising health, safety and environmental practices. We have implemented the latest safety software system, which facilitates effective safety management, real-time information sharing and comprehensive reporting capabilities. Through this system, we ensure a secure and easily accessible environment for staff participation and contribution to our safety program.

Cutting-Edge Equipment

PTP owns and operates state-of-the-art test pumping rigs and injection testing equipment, distinguishing us as the leading provider in Australia. Our full fleet of mine-specification all-wheel drive vehicles ensures accessibility to any location. Our automated test pumping and injection testing rig, equipped with hydraulic-driven reels and a range of submersible pumps and double acting injection valves, allows for precise and efficient operations. We utilise the latest SCADA systems, enabling real-time monitoring, live data viewing, and customised analysis. Our equipment undergoes regular calibration to maintain accuracy and reliability.

PENTIUM
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Certified System
Quality
ISO 9001
SAI GLOBAL

Certified System
Environment
ISO 14001
SAI GLOBAL

Certified System
OHS
ISO 45001
SAI GLOBAL

VYSARN

Pentium Test Pumping is a wholly owned subsidiary of Vysarn Limited, an ASX listed public company