

Australian Company Develops Pioneering Remote-Controlled Survey Craft for Geomembrane Leak Detection



The Geocraft™ LL Survey Vessel

Geotest, an Australian company with over 14 years of experience in leak location surveys, has developed the Geocraft™ Survey Vessel, a pioneering remote-controlled craft for geomembrane leak detection according to ASTM D7007 '*Standard Practices for Electrical Methods for Locating Leaks in Geomembranes Covered with Water*'. This innovative solution showcases Geotest's commitment to advancing the field of electrical leak location and Construction Quality Assurance (CQA) inspection.

The Geocraft™ Survey Vessel is a custom-built, remote-controlled craft designed to detect leaks in geomembranes with unparalleled accuracy, even in deep water environments (up to 6 m). It has been successfully used to survey a 40,000 m² pond, demonstrating its capability to handle large-scale projects. Key features of Geotest's technology incorporated into the trimaran platform include:

1. Integration of GPS and 3D mapping capabilities for precise and repeatable results
2. Cutting-edge equipment design and manufacturing
3. Advanced LLS methodologies and data treatment that surpass traditional survey techniques
4. High-range 1 km remote control range capability
5. 10 hr operation time between charges
6. Suitable for brine ponds and mining ponds



As the only Australian company that designs and manufactures its own leak location equipment, Geotest has positioned itself as a leader in geomembrane liner integrity and durability assurance.



Figure 1. The remote-controlled Geocraft™ Survey Vessel, shown above is surveying a 40,000 m² pond, detecting leaks in the geomembrane liner with unmatched accuracy—even at significant depths of 6 m.

About Geotest

At Geotest, we are proud to be innovators in the field of geomembrane leak detection and Construction Quality Assurance (CQA) inspections. As the only Australian company that designs and manufactures its own leak location equipment, we have been setting industry standards for over 14 years. From pioneering leak detection technology in Australia to refining and advancing our systems, we lead the way in ensuring geomembrane liner integrity and durability.

Why Geotest is Your Trusted Partner:

✓ Unrivaled Expertise

With decades of combined experience, Geotest stands as Australia's most experienced electrical leak location company, continuously advancing testing accuracy and reliability.

✓ Cutting-Edge Technology

Our revolutionary equipment integrates GPS and 3D mapping capabilities, ensuring precise and repeatable results that redefine the industry standard.

✓ Innovative Solutions

The custom-built, remote-controlled Geocraft Survey Vessel, showcased here surveying a 40,000 m² pond, detects leaks with unmatched accuracy—even at significant depths of 6 m.

✓ Forward-Thinking Approach

Unlike others who rely on outdated survey equipment, Geotest prioritizes innovation, staying ahead of the curve with cutting-edge methodologies and technology.

Partner with Geotest

If you're looking for reliable experts in CQA inspections, liner integrity surveys, or liner residual life assessments, look no further than Geotest.

☎ Contact us today to make your project a success:
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🌐 Visit our website: www.geotest.net.au

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