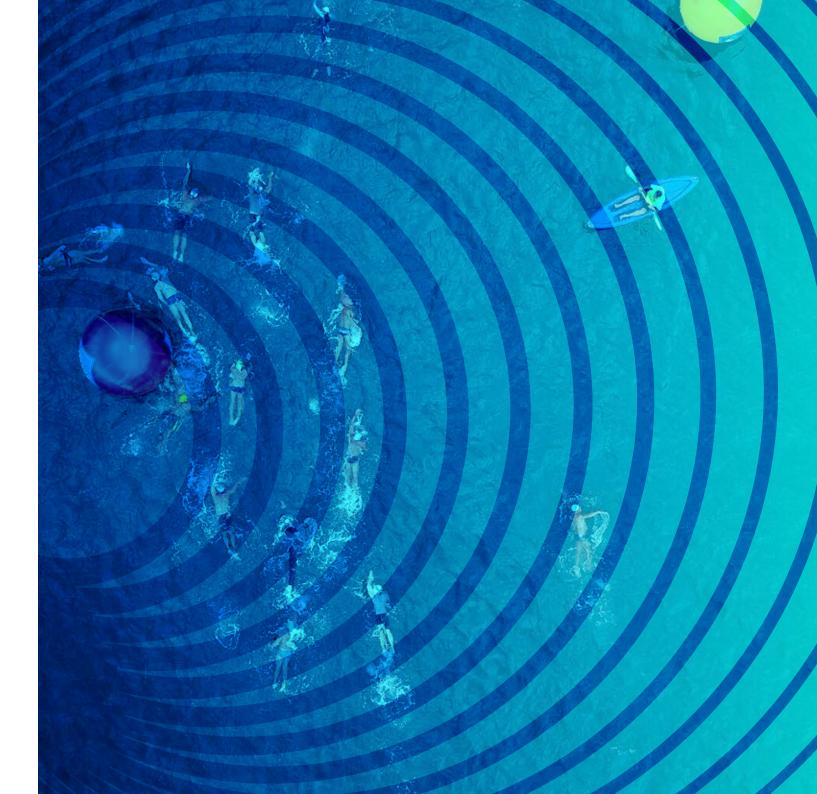


Real-time pathogen screening to protect bathing water users





What if bathing water testing was different?

What if bathing water quality management was an active process, driven by real-time data?

What if bathing water users could be protected by wider health impact monitoring information?

What if pollution incidents could be identified as they occur?

Remove and Reduce...

- **Reduce** the gap between sampling and action; enabling action within 30 minutes.
- Remove blind sampling, locating the specific sources of pollution incidents.
- Reduce health incidents caused by poor water quality.

Increase and Improve...

- Improve active management of bathing water safety; notifying users of issues in real time.
- **Increase** vigilance for problem waters and bather protection.
- Improve predictive modelling of bathing waters.

Protect



- Protect
 swimmers by
 identifying problem
 areas in real time.
- Protect
 the environment
 by locating sources
 and causes
 of pollution.

Siren_{BW} is an innovative approach to bathing water monitoring, leveraging established science to provide real-time information for pathogen risk.



Siren Science



BROADER HEALTH RISK INDICATORS



RESULTS IN 30 MINUTES

TESTING





The use of Faecal Indicator Organisms (FIO) is widely used for compliance and classification of designated bathing waters.

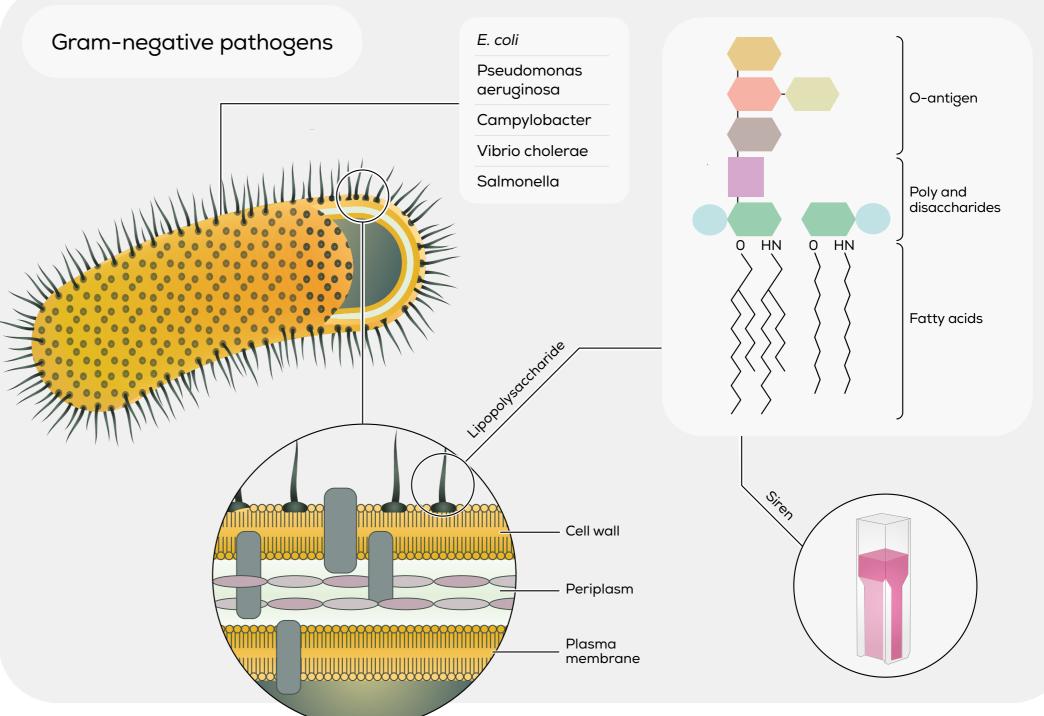
Quantification of *E. coli* (EC) and Intestinal Enterococci (ENT) are used as the primary risk indicators for bathing water users. Current technologies mean that risks are highlighted when it is too late.

The Siren_{BW} concept increases the level of vigilance by identifying broader health risks for bathing water users in around 30 minutes.

The Siren_{BW} patented method* detects the quantity of lipopolysaccharides (LPS), the key cause of inflammatory and immune response. The method is colorimetric with more intense colours representing a higher risk.

The Siren_{BW} approach provides active monitoring for changes in risk level and also supports source tracking for pollution incidents.

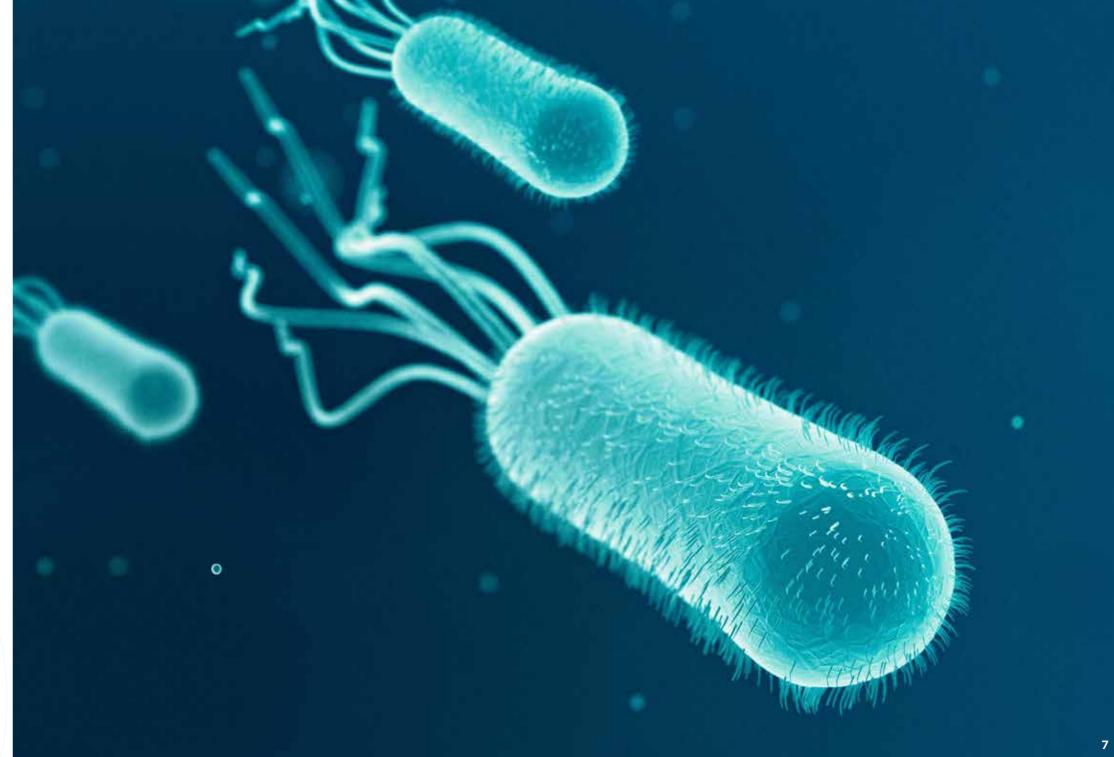




Siren Assay Response

The Siren_{BW} assay is calibrated using an *E. coli* standard reference material. The method detects a much wider range of risks to human health, ranging from very strong (©©©©©) to weak (©):

	METHOD COMPARISON		
Contaminant	EC Test	ENT Test	Sirensw A Palintest Product
E. coli (EC)			
Pseudomonas Aeruginosa			
Campylobacter			
Vibrio cholerae	-		
Salmonella			
Klebsiella			
Intestinal enterococci (ENT)			
Cyanotoxins			



Siren_{BW} Product Specification

Part Code	RMSR10101
Kit Contents	Compact Siren Meter Siren Incubator with heater block for nine samples Siren Incubator battery 10 - 100µL pipettor and 16 tips 20 endotoxin-free tubes
Reagents Included	Lyophilised reagents for up to 16 tests Reagent X validation standard Reagent W, 50mL Reagent S, 10mL (packed separately)
Reagent Stability	18 months maximum
Case Protection	IP67, fully immersible and lockable
Kit Weight	Gross weight (inc. battery) 5.5kg
Dimensions (H x W x L)	340mm x 220mm x 420mm



Join the change:

Become a Siren_{BW}
demonstrator
site and evaluate the
technology in your own
bathing waters. We have
a number of evaluation
products available for
assessment.

Visit **www.palintest.com** to find out more about the science, the Siren_{BW} kit and to see the latest data.



Drive the change:

Add Siren_{BW} to your bathing water monitoring toolbox and provide real-time data alongside regulatory reporting data.

Visit www.palintest.com
to see our full range of
bathing water monitoring
products, including *E. coli*quantification and Blue
Green Algae monitoring.



Real-time pathogen screening to protect bathing water users

Palintest

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