

Mobile Membrane Filtration Units Protect City from *Cryptosporidium* Outbreak



The challenge

In February 2016, a city in the southern region of the United Kingdom identified the presence of *cryptosporidium* due to unusually heavy rains and increased levels of contamination. This was a major concern, as the site supplies drinking water to more than 20,000 people. To ensure the quality and safety of the drinking water, a solution was needed to eliminate *cryptosporidium* at the source immediately.

The solution

As time was critical, Aria Filtra™ worked closely with the end user to rapidly deploy the Aria FAST™ containerized mobile water treatment system within 30 days to protect the region's water supplies.

Ultimately, the end user chose to deploy the Aria FAST unit because of its proven immediate response time and the modular treatment unit's capability to remove *cryptosporidium*.

Online monitoring and integrity testing added to the confidence of the membrane system performance. The fully automated, self-contained membrane solution was capable of treating a maximum of 300 cubic meters per hour (m³/hr) of contaminated water instantaneously. This is now the third Aria FAST system that the end user operates.



“Pall’s [Aria Filtra’s] support during the installation and commissioning phase of this project was critical. Their efforts to speed up our deployment helped to eradicate the contamination quickly and efficiently.”*

Project delivery manager

*Aria Filtra, formerly Pall Water, was a division of Pall Corporation when this quote was provided.

The results

The Aria Filtra team was able to customize the Aria FAST system, allowing it to operate at up to 180 m³/hr (1 million gallons per day). The deployment also included continuous monitoring of water quality resulting in the elimination of *cryptosporidium* at the bore hole source. These results removed the threat of contamination into the local reservoirs and drinking water sources within 30 days of detecting the issue.

The benefits

Benefits of the Aria FAST mobile water treatment system include:

- Rapid response to meet emergency timeline
- Containerized treatment system with less capital cost
- Protection from *cryptosporidium* outbreaks
- Retaining consumer confidence in water treatment

Aria FAST mobile water treatment solutions provide water on demand, when and where you need it most.

- Rapid deployment
- Easy installation
- Robust design
- Temporary or long-term solutions



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Aria Filtra, a division of Trojan Technologies, is the filtration partner of choice for municipal and industrial customers that need reliable access to consistent, high-quality water. With more than two billion gallons of installed capacity spanning six continents, Aria Filtra has the process expertise, proven technology, and intelligent systems that customers trust to reliably tackle their most complex water treatment challenges. Featuring industry-leading durability, reliability, and ease of operations, our broad portfolio of solutions ensures mission-critical functions continue to work as needed, day in, day out, for years to come. Learn more at AriaFiltra.com.