

Mobile Membrane Filtration Units Protect City from Cryptosporidium Outbreak



THE CHALLENGE

In February 2016, a city in the southern region of the UK 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 over 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, Pall 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 Pall's Aria FAST unit because of its proven immediate response time and the modular treatment unit's capability to remove cryptosporidium.

On-line 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 m³/hr of contaminated water instantaneously. This is now the third Aria FAST system that the end user operates.

“Pall'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

THE RESULT

The Pall team was able to customize the Aria FAST system allowing it to operate at up to 180 m³/hr (1 MGD). 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.



Overall, the Pall Aria FAST operation was able to meet the following requirements:

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



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