

Press Release

Aquarius Spectrum to provide leak detection services in Singapore

900 hydroponic sensors will be installed to monitor 400km of large water mains

Israel 13 July 2021 – Aquarius Spectrum, a leading provider of water leak detection and pipe condition assessment solutions, will deploy its innovative acoustic monitoring system (AQS-SYS) on Singapore's drinking water supply network. Aquarius Spectrum's solution was part of the proposal submitted by its local partner, which was awarded the tender by [PUB, Singapore's National Water Agency](#) for provision of leak detection services.

Aquarius will provide 900 hydroponic sensors to be installed on Singapore's large water mains – with diameters ranging from 500mm to 2,200mm. These sensors, designed specifically for underground installation, will perform leak monitoring on approximately 400km of the water pipeline for the next 5 years.

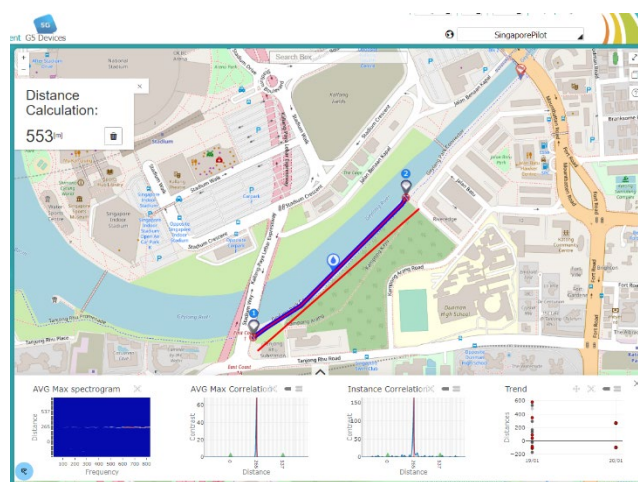
The hydroponic sensors detect and record the sounds within the pipe, sending them directly to a cloud-based server for analysis using a wireless network and special algorithms. The results are translated to system alerts including a detailed GIS map of identified leaks and their estimated size. A unique feature of the AQS monitoring system is an automatic correlation between every two measuring sensors, generating reliable and accurate results in a very short of time.

“Aquarius is proud to deliver to PUB the gold standard performance in leak detection in a large-scale project, having successfully provided leak detection services in all five continents”, said **Naama Zeldis, CEO of Aquarius Spectrum**. “Aquarius allows utilities around the world to significantly reduce their Non-Revenue Water and their operational costs by providing accurate and continuous data on the quality of the pipe system, on points of vulnerability and on potential and actual leak events.”

“The best way to minimize water losses, optimize the water network asset and avoid unnecessary capital investments such as emergency treatments and piping replacement, is by taking a proactive approach, while implementing data-driven tools and big-data analysis”, added Zeldis.



Aquarius Spectrum's Acoustic Hydrophone Sensor Installation



Aquarius Spectrum's UI Showing Correlation of Leak Simulation