



Press Release

10 April 2013

Bluewater Bio

(“BwB” or the “Company”)

BwB Secures Third HYBACS[®] Order in South Africa, for £1.75m Hartbeesfontein Project

Bluewater Bio, a leading provider of innovative high-performance, cost-effective water and wastewater treatment technologies, is pleased to announce that it has secured a third order for its low energy nutrient removal technology, HYBACS[®]. The project, valued at 24 million South African Rand (c. £1.75m) and secured via Bluewater Bio’s licensing agreement with Headstream Water Holdings, is for the extension of Hartbeesfontein Wastewater Treatment Plant (WWTP), owned and operated by the City of Matlosana Local Municipality in North West Province, South Africa.

The HYBACS upgrade has been designed to double the plant capacity from 4 to 8 megalitres / day, an uplift of around 60,000 Population Equivalent, and is driven primarily by increased load from a local abattoir. The first project phase, which is already under construction, comprises the deployment of six SMART[™] units, the system that powers the HYBACS process.

Having already experienced the high quality treatment capability, low energy and maintenance costs, small footprint and rapid deployment of HYBACS on their Botleng and Swartruggens projects, BwB was the natural choice for Moedi Consulting Engineers when engaged by the Matlosana municipality at Hartbeesfontein.

Hartbeesfontein represents BwB’s third order for HYBACS in South Africa in as many years, and marks the Company’s largest contract award within the region to date. Combined with the four SMART units already performing to high standards at the Botleng and Swartruggens plants, this latest order will bring the total African installed base to ten. In anticipation of future population growth, civil engineering works have already been prepared at Hartbeesfontein for an additional two SMART units and two more are under construction for deployment by Headstream to satisfy increasing market demand for rental units.

Daniel Ishag, Founder and CEO of Bluewater Bio International commented: “We are very pleased to have secured our third order, via Headstream, for the Hartbeesfontein wastewater treatment plant. With many regions of Africa in urgent need of wastewater upgrades and extensions, Bluewater Bio’s solution, with its superior economics and energy savings compared to conventional Activated Sludge, is ideally placed to serve this crucial social and political need.”

“Thanks to all involved, from BwB’s own team to Headstream and Moedi, we have now doubled our footprint within South Africa; further fuelling the global roll-out of BwB’s full product platform, from HYBACS and FilterClear to our latest UV solution.”

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About Bluewater Bio

Bluewater Bio is an established specialist in the cost effective treatment of water and wastewater, founded in 2007 to develop a patented ‘HYBrid ACTivated Sludge’ process (HYBACS®), powered by the company’s Shaft Mounted Advanced ReacTor (SMART™) units.

Following the acquisitions of Water Innovate Ltd (from Cranfield University) and FilterClear Ltd, BwB’s core capabilities now include:

- HYBACS®
- FilterClear™ (high throughput multi-media filtration)
- GHG-Tox (nitrification & greenhouse gas monitoring)
- Neotech™ (low energy, high reflectivity UV disinfection)

The company has a particular emphasis on reducing:

- CAPEX & OPEX
- Energy & chemical consumption
- Physical & environmental footprint
- GreenHouse Gas emissions – operational and embedded

Combining R&D expertise with a highly entrepreneurial business approach, BwB not only develops its own innovations but also scours adjacent markets for complementary IP, licence opportunities and partnerships. Through this aggregation strategy, BwB aims to be the natural choice for cost effective treatment, re-use and monitoring provision across the water, wastewater and process industries.

HYBACS® is rapidly gaining commercial traction among a growing number of companies in Europe, North America, South Africa, Asia and the Middle East, on the basis of its commercial superiority to comparable high performance treatment processes worldwide, across a wide range of treatment requirements.

HYBACS® is an innovative nutrient removal wastewater treatment process that was developed from a process originating in South Korea. It is applicable to new as well as existing works, over a wide range of scales, and has been proven commercially in over 25 applications with recent contracts including: the 100,000m³/day upgrade of the largest wastewater treatment works in Bahrain; and Severn Trent Water's Ashbourne sewage treatment works in the UK, serving a population equivalent of 35,000.

HYBACS® is not only highly applicable to the municipal treatment sector but also to a wide range of high strength organic industrial wastewaters from food or beverage production, to leachate and livestock waste treatment. BwB aims to present customers with solutions which provide benefits in capital and lifetime cost, treatment performance, ease and speed of plant deployment, whilst being easily combined with tertiary filtration for high quality water reuse applications.

FilterClear™ is a pressure multimedia filter technology capable of separating suspended solids from a wide range of waters with a comparatively high performance, even at high loading velocities. FilterClear™ plants are currently installed at over 40 sites, treating waters such as secondary effluent at wastewater treatment plants, cooling waters at industrial sites and seawater at desalination plants. Throughput ranges from 10m³/hour up to 5,000 m³/hour.

FilterClear technology competes cost effectively with other multimedia filters, continuous filters, deep bed filters, disc filters and micro screens. It has a strong track record in conventional filtration applications and can replace ultrafiltration membranes upstream of RO membranes.

Current clients include Scottish Water, Northumbrian Water, Diageo, Saudi Aramco, Michelin, Museum of London and several resellers.