



Press Release

5th February 2014

**Bluewater Bio International**

("BwB" or the "Company")

**Bluewater Bio Signs Reciprocal Licensing Agreement with Biowater Technology**  
*combining high rate multimedia filtration with the latest in Moving Bed Bio-Reactors*

Bluewater Bio International, a leading provider of innovative high-performance, cost-effective water and wastewater treatment technologies, is pleased to announce that it has entered into an agreement with Norwegian based Biowater Technology ("Biowater") to market each other's advanced, high rate filtration and Moving Bed Bio Reactor ('MBBR') processes, respectively. More specifically the agreement, which was executed on February 1<sup>st</sup> 2014, covers BwB's FilterClear™ and Biowater's CFIC® products on a global, non-exclusive basis. It enables BwB to broaden and enhance their ever-expanding portfolio of innovative technologies, thereby strengthening their market position whilst opening up new territories and vertical sectors across the world.

The agreement marks the culmination of an increasingly close relationship over the past 18 months, as demonstrated by co-installation of BwB's FilterClear™ and Biowater's CMFF® technologies on a water reuse system for the Nirlon 'green campus', near Mumbai, India.

Biowater see FilterClear as complementary to their current MBBR -based offering, attracted by its key differentiators of class leading throughput rate and solids retention, high dirt holding capacity and low volume of backwash waste. In addition, the small footprint, minimum civil works, quick on-site installation and minimal operational intervention gives the end user a lower whole life cost over the life of an asset.

In addition to technology supply, both companies will provide, where necessary, relevant training and support.

Audun Lodemel, CEO of Biowater Technology commented: "We are looking forward to working with Bluewater Bio in what is undoubtedly a mutually beneficial alliance between two companies that share the same vision and values. The combination of Bluewater's high rate media filter with our own low footprint, cost effective biofilm technologies, such as the next generation

Continuous Flow Intermittent Cleaning MBBR (CFIC®), allows us to address an even wider segment of the market – both municipal and industrial. Likewise, Bluewater Bio is well placed to benefit from the utilisation of our technologies to their global network. Customers will benefit from the combined solution with lower investment and operation costs.”

Daniel Ishag, Founder and CEO of Bluewater Bio International added: “We view Biowater as an important strategic partner going forward, as we look to consolidate our market position globally whilst opening up the new opportunities that Biowater’s technology portfolio affords us. We have seen interest in our FilterClear technology grow exponentially over the past few months, in response to compelling performance data from tertiary treatment installations at Anglian Water and – in combination with Biowater’s biofilm processes – at Nirlon in India. Just as Biowater gain access to our technology and distribution, we are able to utilise their high performance biofilm technologies. To continue building our leading, stand-alone technology platform, Bluewater Bio must expand our portfolio with innovative, small footprint, low energy technologies that complement our existing products.

“I am particularly proud to be cementing our FilterClear offering so soon after our recent launch events at Tubli sewage treatment works in Bahrain, where our HYBACS upgrade received critical acclaim from clients, politicians and future partners alike. With both landmark developments under our belt by early February, I am confident of the year ahead.”

– ENDS –

**For further information or to arrange a briefing, please contact:**

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#### **About Bluewater Bio**

Bluewater Bio is an award winning specialist in the cost effective treatment of water and wastewater. It was founded in 2007 to develop HYBACS®, a patented ‘HYBrid ACTivated Sludge’ process. Following organic and acquisitive growth, our capabilities now include:

- HYBACS® (cost-effective activated sludge upgrade)
- FilterClear™ (high throughput multi-media filtration)
- GHG-Tox (nitrification & greenhouse gas monitoring)
- NeoTech™ (low energy, high reflectivity UV disinfection)
- World class R&D team, based at Cranfield University, UK

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 100,000m<sup>3</sup>/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 10m<sup>3</sup>/hour up to 5,000 m<sup>3</sup>/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.

### **About Biowater Technology**

Biowater Technology designs and engineers next generation technologies and solutions for the municipal and industrial wastewater treatment markets. The team has experience from over 300 projects and installations of MBBR worldwide.

The company provides innovative technologies and solutions for biological treatment of water and wastewater. Products include but are not limited to: MBBR, IFAS and Package Plants.

Biowater has offices in the United States and Norway with partners and representatives around the world.

### **Biowater at a glance**

- Unique know-how in microbiology and process engineering
- Installations in municipal and industry
- Deliver process guarantees
- Partner focus
- Most versatile technology available, easy to integrate into existing wastewater treatment plants Municipal and industrial
- New technology delivers dramatic reductions in CAPEX and footprint while facilitating existing infrastructure
- Immediate OPEX reductions from reduced energy consumption and less use of consumables
- High throughput: Continuous process with no regular downtime