

News

Johannesburg, South Africa – 25 April 2018

Veolia supplies two packaged water treatment plants to Bambisana Hospital



Pic 1



Pic 2

Veolia Water Technologies South Africa recently assisted state-owned hospital, Bambisana, with two packaged water treatment plants. Situated in remote Eastern Cape, the hospital required low-footprint and low-maintenance water treatment solutions to provide potable water to the hospital as well as to treat its sewage water for re-use. Veolia designed, manufactured and commissioned two of its trademarked containerised, plug-and-play solutions in just three months for the hospital.

“Our packaged plant solutions are a cost-effective alternative to in-ground plants and are well suited for remote areas that are situated away from bulk water infrastructure, such as with Bambisana hospital,” says Royston Moses, Project Engineer, Veolia Water Technologies South Africa.

Supplying consistent potable water

The previous reservoir infrastructure provided an inconsistent supply of water and was therefore unsuitable for the hospital that requires consistent, high-quality water for its day-to-day operations. “Furthermore, our water quality studies indicated that the existing reservoir and borehole water was host to low-concentration bacteria, high turbidity and slight residual colouring,” comments Moses. Veolia supplied the hospital its Potable Water Treatment Plant (PWTP™) that produces 120 m³ of high-quality potable water per day. The PWTP™ features a clarifier, sand filter, carbon filter and a range of chlorine, coagulant, flocculant and pH dosing equipment, all packaged in a single container to treat the water to SANS241 and WHO standards.

Treating hospital sewage

With no former sewage treatment infrastructure in place, the hospital also required a packaged plant to treat its wastewater according to the RSA General Standard for Discharge. Veolia addressed this with its packaged Sewage Treatment Plant (STP™) that upgrades 60 m³ of sewage water per day. Enclosed in 6 six-metre

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containers, the STP™ features Veolia's cost-effective trickling filter technology to treat the sewage water to certified re-use standards, as well as a bar screen, septic tanks, clarifiers and chlorine-dosing equipment. This treated water is now re-used by the community for irrigation and agricultural purposes.

Both plants are fully containerised to protect the equipment from environmental impacts and for security reasons. "All our packaged water treatment solutions are pre-assembled and Factory Acceptance Tested at our workshop in Johannesburg. What this means for Bambisana hospital is that the plants simply needed to be 'plugged-in and switched on' when they arrived on site," adds Moses. "By lowering manufacturing and commissioning time, we were able to supply these cost-effective water treatment plants in just three months."

Although both the plants are easy to operate and require very little maintenance, Veolia remained onsite to provide local operator training. The PWTP™ was delivered to site in June 2017, closely followed by the STP™ two weeks later.

Caption to Pic 1 VEO 4616: The PWTP™ produces 120 m³ of SANS-approved potable water per day for the hospital.

Caption to Pic 2 VEO 4616: The sewage treatment plant makes the community's wastewater re-use possible!

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Veolia group is the global leader in optimized resource management. With nearly 169 000 employees worldwide, the Group designs and provides water, waste and energy management solutions which contribute to the sustainable development of communities and industries. Through its three complementary business activities, Veolia helps to develop access to resources, preserve available resources, and to replenish them. In 2017, the Veolia group supplied 96 million people with drinking water and 62 million people with wastewater service, produced nearly 55 million megawatt hours of energy and converted 47 million metric tons of waste into new materials and energy. Veolia Environnement (listed on Paris Euronext: VIE) recorded consolidated revenue of €25.12 billion in 2017. www.veolia.com

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