

# News

Madrid, Spain – 16 March, 2017

## Veolia chosen for the extension of the wastewater treatment plant at Munksjö's Tolosa mill in Spain



**Munksjö has selected Veolia's AnoxKaldnes™ MBBR process to treat its effluent, surpassing discharge standards required by local authorities. This new selection sets up the AnoxKaldnes MBBR as the preferred biological wastewater treatment in the pulp & paper market.**

Munksjö, the world leader in the production of advanced paper products developed with intelligent paper technology, has relied on Veolia Water Technologies to undertake the expansion works of its industrial wastewater treatment plant at Tolosa mill, located at its factory in Guipúzcoa, in the north of Spain. The project is co-financed by the European Union through the European Regional Development Fund (ERDF) and the Department of Environment and Territorial Policy of the Basque Government.

The new installation, with a capacity of 200 m<sup>3</sup>/hour, will use AnoxKaldnes™ MBBR for biological treatment and Actiflo® for ballasted water clarification and settling. The combination of these two Veolia proprietary technologies will allow for removal of the dissolved chemical oxygen demand (COD) and the suspended particulate matter, thus obtaining a high-quality effluent, surpassing the current standards required by the local legislation for river discharge. The technological viability of this process was demonstrated through pilot tests carried out by Veolia in 2014, which also allowed for the design of the full-scale plant to be optimized.

One of the main innovations of the solution put forth by Veolia is the use of the new generation of Z-MBBR carriers. The 3D design allows the biofilm to grow in a controlled and protected way until reaching a predetermined thickness. The use of these supports will eliminate the biodegradable filtered COD from the water and avoid the possible formation of calcium precipitates.

One of the key factors of success in this project has been the capacity of the Actiflo® process to be revamped as Actiflo® Carb or Actiflo® Soft processes. These Actiflo variants will allow Munksjö to anticipate new environmental requirements in accordance with the company's environmental standards that demonstrate its commitment and environmental awareness.

AnoxKaldnes™ MBBR biological wastewater technology is currently being used in more than 700 references worldwide for both municipal and industrial applications. In the paper industry, the main world producers such as ENCE, Iberpapel, Papelera Zicuñaga, SCA, Stora Enso, Alier, United Paper, Sniace or Holmen Paper, among others, have successfully entrusted this technology.

### **About Munksjö**

Munksjö is a world-leading manufacturer of advanced paper products developed with intelligent paper technology. Munksjö offers customer-specific innovative design and functionality in areas ranging from flooring, kitchens and furnishings to release papers, consumer-friendly packaging and energy transmission. The transition to a sustainable society is a natural driving force for Munksjö's growth as the products can replace non-renewable materials. This is what "Made by Munksjö" stands for. Given Munksjö's global presence and way of integrating with the customers, the company forms a worldwide service organisation with approximately 2,900 employees and 15 facilities located in France, Sweden, Germany, Italy, Spain, Brazil and China. Munksjö's share is listed on Nasdaq in Helsinki and Stockholm. Read more at [www.munksjo.com](http://www.munksjo.com).

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**Veolia** group is the global leader in optimized resource management. With over 163 000 employees worldwide, the Group designs and provides water, waste and energy management solutions that 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 2016, the Veolia group supplied 100 million people with drinking water and 61 million people with wastewater service, produced 54 million megawatt hours of energy and converted 31 million metric tons of waste into new materials and energy. Veolia Environnement (listed on Paris Euronext: VIE) recorded consolidated revenue of €24.39 billion in 2016. [www.veolia.com](http://www.veolia.com)

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## Contact

**María Jesús Fernández**

off. : +34 91 660 4000

[Maríaj.Fernandez@veolia.com](mailto:Maríaj.Fernandez@veolia.com)

[www.veoliawatertechnologies.com](http://www.veoliawatertechnologies.com)