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TROJANUV SOLUTIONS A PARTNER IN GLOBAL AWARDS – HELPING TO SOLVE WATER SCARCITY

The 2008 Stockholm Industry Water Award

The Orange County Water & Sanitation District, California, USA recently won the prestigious 2008 Stockholm Industry Water Award. The OCWD & OCSD are being honored for developing an extraordinary water purification technology and the world's largest purification plant for groundwater recharge. Trojan Technologies was recognized for being part of the solution in the Orange County Ground Water Replenishment system. The TrojanUVPhox™ creates extremely high quality water from wastewater that would otherwise be lost to the ocean. The water is reused to provide protection against drought and as a means of achieving a sustainable water supply.



The TrojanUVPhox™: a key element of the Orange County Ground Water Replenishment system in California, USA.

The water providers of Orange County are taking a proactive role in meeting the water supply needs of the region. In doing so, they have garnered widespread public support for the project (for more information, visit www.qwrsystem.com). A key component of their efforts

has been the design of a treatment process that provides multiple barriers to chemical and microbial contaminants and meets California Department of Public Health Notification Levels for chemicals such as NDMA (Notification Level of 10 parts per trillion [ppt]) and 1,4-dioxane (Notification Level of 3 parts per billion).

In looking to the future and the increased demands for groundwater, it is, and continues to be, the mission of OCWD to provide local water retailers with a reliable, adequate, high-quality water supply at the lowest reasonable cost in an environmentally responsible manner. Trojan is proud to be a part of this mission. The GWR system has established a blueprint for large-scale wastewater purification that is already being emulated in other dry regions and nations.

The Stockholm Industry Water Award honors and encourages business sector contributions to sustainable development in the water sector and is presented each August at the World Water Week in Stockholm. It was established in 2000 by the Stockholm Water Foundation in collaboration with the Royal Swedish Academy of Engineering Sciences and the World Business Council for Sustainable Development.

Global Water Intelligence presents Global Water Awards 2008 – Water Project of the Year

The continent of Australia has experienced record drought conditions in recent years. As a result, the water supplies of major cities such as Sydney and Brisbane have reached unprecedented lows. For example, the combined storage in the three reservoirs supplying Brisbane had dropped to approximately 17 % of capacity.

The extreme drought has changed public opinion regarding the drinking of recycled water. Nine months after a public referendum voted down the use of recycled water in a city nearby Brisbane, polls in Australia overall now show that public support of indirect potable reuse is 70% or higher. The Premier of Queensland has diverted over AU\$2 billion to the construction of water recycling facilities that will ensure that a significant fraction of the water used in Brisbane is reused as drinking water.

In April 2008, the *Budamba/Western Corridor Recycled Water Project Stage 1A* in Queensland was presented with the Water Project of the Year by Global Water Intelligence. The Western Corridor Recycled Water Project will ultimately produce 300,000m³/d of drinking water in South East Queensland. Stage 1A, the Bundamba Advanced Wastewater Treatment Plant, was delivered in August 2007. It uses MF/UF, RO, and a final oxidation process that combines UV and hydrogen peroxide to repurify 20,000m³/d of treated wastewater to supply the Swanbank and Tarong electric power generation stations in place of potable water.



The two-chamber TrojanUVPhox™ treatment train at West Basin, California is similar to the configuration at Bundamba1A and 1B.

Trojan's Environmental Contaminant Treatment (ECT) division had an important role in this project. Working together with the three engineers on the various projects (MWH, CH2M Hill, and Black and Veatch), Trojan has helped to design the UV-oxidation systems that will be used at four individual advanced water treatment plants that are part of the Western Corridor Water Recycling Project. The Western Corridor Project will deliver highly-treated recycled water obtained from several Brisbane-area wastewater treatment plants back to the city's water reservoirs. The advanced treatment plants will employ microfilter – reverse osmosis – UV-oxidation treatment, now considered to be the world standard treatment train for indirect potable reuse. The TrojanUVPhox™ will treat nitrosamines, pharmaceuticals and other wastewater-derived contaminants that may pass through reverse osmosis as well as acting as the primary disinfection barrier.

Global Water Intelligence (GWI) is a monthly journal providing analysis and strategic data on the international water market. The publication boasts a network of specialist water and financial journalists, based in-country with access to exclusive regional data. GWI has established itself as the market-leading publication for developers, suppliers, financiers, governments, utilities and municipalities seeking information and analysis on water projects with an element of private sector participation. The Water Project of the Year is awarded to a water or wastewater project that represents the most significant contribution to water technology and environmental protection.

Trojan Technologies is a wholly-owned subsidiary of Danaher Corporation of Washington, D.C. Trojan designs, manufactures and sells UV systems for municipal wastewater and drinking water facilities, as well as for the residential market. The company also designs and installs treatment technology for the environmental contaminant and micro pollutant destruction market and partners with Aquafine Corporation of Valencia, California to provide UV solutions to the Industrial and Commercial markets.

With over 5,300 municipal facilities in more than 50 countries using its technology, Trojan has the largest installed base of UV systems in the world. Headquartered in London, Ontario, Canada, the company also has offices in the U.K., Germany, Netherlands, Spain, and the U.S (www.trojanuv.com).

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