

## Revolutionary Wastewater Disinfection System – TrojanUVSigna™ – Selected by Greater Chicago

LONDON, ONTARIO, CANADA – October 29, 2013 – Today [TrojanUV](#) announced that their newest wastewater ultraviolet light disinfection system, the [TrojanUVSigna™](#) has been selected by the Metropolitan Water Reclamation District of Greater Chicago (MWRD). The TrojanUVSigna™ system is specifically designed for large-scale wastewater disinfection applications, making adoption of UV disinfection easier, reducing the total cost of ownership compared to chemical disinfection and simplifying maintenance for the wastewater treatment plant operations staff. UV disinfection is a physical process that inactivates bacteria, viruses and protozoa, making wastewater safe to discharge back to the environment.

“Municipalities who select the TrojanUVSigna are choosing today’s most innovative and advanced UV disinfection technology,” says Marv DeVries, president of Trojan Technologies. “We’re proud to be working with the design engineering firm Greeley & Hansen on the design of the UV disinfection system, and MWRD staff who will manage the construction contract on this installation.” Trojan will be supplying fourteen UV banks equipped with revolutionary [TrojanUV Solo Lamp™ Technology](#). The UV system in Chicago will have a flow capacity of 450 million gallons per day (1,700 million liters per day) making it one of the ten largest wastewater treatment plants in the United States. Out of the top thirty largest wastewater treatment plants in the United States, Chicago is the first to use UV technology. The TrojanUVSigna breaks the paradigm that UV can’t be used for the largest wastewater treatment plants in the world. The system is expected to be operational in 2015.

The Terrence J. O’Brien Water Reclamation Plant is an activated sludge, single stage nitrification plant. The plant, located in Skokie, Illinois, began operation in 1928 and currently serves over 1.3 million people in a 141 square mile service area. The plant currently discharges secondary effluent from the secondary clarifiers into the North Shore Channel of the Chicago River, which is part of the Chicago Area Water System (CAWS) that is designated for primary contact recreational use. Recent regulations have required the facility to add a disinfection process to further enhance the water quality of the discharging effluent.

The TrojanUVSigna was selected by MWRD for installation at the Terrence J. O’Brien Water Reclamation Plant for its exclusive benefits, including:

- lowest number of UV lamps required and ease of operation and maintenance
- low total installed capital cost and long-term operating cost
- suitability for seasonal operation
- system design features and Trojan’s overall experience and support

“The TrojanUVSigna, with Solo Lamp Technology, is the ideal solution for large facilities who want to cost-effectively install new disinfection facilities or convert from chlorine to UV disinfection,” adds DeVries. Trojan has incorporated their latest lamp and technology innovations into TrojanUVSigna. These include 1000 Watt TrojanUV Solo Lamp Technology; the advanced Solo Lamp driver; ActiClean™ chemical/mechanical sleeve cleaning; and a built-in automatic bank lifting device.

### **About TrojanUV Solo Lamp Technology**

In May 2010, after several years of development and testing, Trojan introduced their TrojanUV Solo Lamp Technology. By combining the best features of both low pressure and medium pressure lamps, this technology is enabling Trojan to launch a new platform of advanced UV systems. This line of products currently includes [TrojanUVTorrent™](#) and now [TrojanUVSigna](#). These systems not only provide maximum disinfection performance, but, through new design features, are now even easier to install, maintain and operate.

### **About TrojanUV**

[TrojanUV](#) designs, manufactures and sells pressurized and open-channel UV disinfection systems for municipal wastewater and drinking water, and UV-oxidation systems for environmental contaminant treatment applications. TrojanUV plays an important role in advancing disinfection technology, and is committed to providing the world with more efficient, environmentally-friendly water treatment solutions. There are over 8,500 TrojanUV installations, in 102 countries, treating 50 billion gallons of water per day.

### **About Trojan Technologies**

The [Trojan Technologies](#) group of businesses offers products under the brands [Aquafine](#), [OpenCEL](#), [Salsnes Filter](#), [Trojan Marinex](#), [TrojanUV](#), [US Peroxide](#) and [VIQUA](#). Applications and markets served include municipal wastewater, drinking water, environmental contaminant treatment; ballast water treatment; residential water treatment; ultrapurification of water used in food and beverage manufacturing, pharmaceutical processing and semiconductor applications; filtration and solids separation.

Trojan Technologies has offices in the U.K., Canada, Germany, China, France, Australia, Italy, Spain, United Arab Emirates and the U.S.

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