



FOR IMMEDIATE RELEASE

Award for Chemical Free Groundwater Purification of 1,4-Dioxane by Lockheed Martin

London, Ontario, Canada (August 2nd, 2011) – Purifics ES Inc., (“Purifics”) is pleased to announce that it has been awarded the contract to supply a PHOTO-CAT GWP system to purify contaminated groundwater at the former American Beryllium Company facility in Sarasota Florida which is now owned by Lockheed Martin Corporation (Lockheed Martin). The groundwater is contaminated with volatile organic solvents including 1,4-dioxane.

Lockheed Martin, which had acquired the Sarasota property in 1996, discovered the groundwater was contaminated in 2000. Lockheed Martin has assumed responsibility for the cleanup.

Purifics will utilize its photocatalytic ceramic membrane treatment process (PHOTO-CAT[®]) to remove metals, such as Iron and Aluminum and to destroy the chemicals contained in the groundwater pumped from 80 extraction wells. This chemical free PHOTO-CAT process will be capable of treating close to a 1/2 million gallons per day (MGD) of contaminated groundwater.

Considered innovative technology by some, the PHOTO-CAT systems have been successfully employed to cleanup contaminated groundwater since 1994.

PHOTO-CAT[®], and its complimentary technology Tool Box, combines the best of chemical-free advanced oxidation process (AOP+[®]) and high flux continuous flow ceramic ultrafiltration. There are two major differences between Purifics’ AOP+ technology and conventional AOP systems. First, AOP+ technology does not use chemical oxidants such as peroxide, ozone or permanganate and their associated challenges. Secondly, AOP+ technology has the greatest commercially available oxidizing potential (and reduction) allowing it to treat contaminants of concern that chemical-based AOP technologies cannot.

A Lockheed Martin information bulletin issued about the Photo-Cat process on this site states “The extracted groundwater is ... treated using advanced oxidation technology, which Lockheed Martin has found to be the most efficient, safe and cost effective way to treat site-specific chemicals of concern (CoCs), including trichloroethylene (TCE) and 1,4-dioxane.”

Advantages of the PHOTO-CAT are that it is fully automated (no operator required) and will treat contaminants of concern to levels below the detection limit (3ppb). Another advantage is that there are no air emissions, eliminating the need for air permits.

An interim PHOTO-CAT system has been purifying contaminated groundwater from 10 extraction wells at this site since 2006 as part of the Interim Remedial Action Plan approved by the Florida Department of Environmental Protection (FDEP). The full-scale PHOTO-CAT system, approved by the FDEP, is scheduled to be installed 1st Q 2012.

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About Purifics

Purifics is a technology leader in water purification solutions. Our mission is to purify, condition, and control water for economic and environmental advantage. Our strength is the ability to purify water to meet the requirements of any number of Industrial & Municipal applications. Since 1994, our advanced systems have solved many unique challenges in North America and throughout the world.

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