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Press Release

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Subject: Las Vegas Deep Aquifer Restoration Technology

WaterSmart Environmental, Inc. announces the scientific development of technology to restore the Las Vegas Deep Aquifer which is under continuing attack by excessive pumping, salinity, and sustainability. The proposed technology successfully deals with all these attacks including outdoor water consumption loss. There is no impact on thermoelectric power generation activities or on industrial activities. Public water supply is the only impact category that is touched by the proposed technology.

The comprehensive master plan consists of converting the existing water treatment plants to membrane treatment technology which would significantly lower the existing high dissolved solids content of the finished water. The build-own-operate plan calls for the installation of regional biowastenergy industrial parks which would treat both municipal solid wastes (MSW) and sanitary wastewaters as a minimum. Other area wastes would also be most welcome. The park would anaerobically digest the wastes to produce methane gas, carbon dioxide gas, organic fertilizer, liquid fertilizer concentrate, and high quality reverse osmosis permeate water. All of the co-products would be sold to the marketplace except the water which would be donated to the aquifer for restoration. Some of the methane gas would be used to generate renewable green power electricity which would be sold to Clark Country to produce project revenue. Additional revenues would be produced from MSW tipping fees and sales of organic fertilizer and liquid fertilizer concentrate to the local golf course marketplace. The carbon dioxide would be beneficially used to enhance the growth of microalgae in the 12 mile long Las Vegas Wash. Microalgae can produce massive amounts of lipids which can be refined into biodiesel fuel for sale to the local marketplace. The entire Las Vegas Wash effluent will be pumped to the existing wastewater treatment plants which would be converted into waste-to-renewable energy facilities. Restoration of the deep aquifer would stop further land subsidence. By diverting treated wastewater to the deep aquifer existing flows to the Las Vegas Wash would be significantly reduced thereby lowering or possibly eliminating existing erosion. The quality of the recycled water is much better than the deep aquifer and would therefore tend to gradually improve the quality of this aquifer over time. The renewable energy would total over 300 MW of electricity that would tend to lower electricity rates in Clark County. The entire project is estimated to cost $500-600 million and take about 5 years to complete. No tax dollars will be used as non-recourse project funding will be solicited from renewable energy investment sources. The technology is fully Kyoto Protocol compliant as there are zero emissions to the environment. Clark County becomes a zero waste-to-landfill community. Aquifer depletion is a significant and increasing worldwide problem. The county would likely want to build an *exhibition center* to accommodate the thousands of worldwide visitors interested in this next generation aquifer restoration technology.

WaterSmart Environmental, Inc. is a provider of waste-to-energy technologies and a manufacturer of highly engineered water purification components and systems. The company designs and builds a wide variety of water treatment equipment including packaged water and wastewater treatment plants, UltraPaq™ aerobic package plants, OAT™ Process anaerobic digesters with associated energy production, aerators, filters, PuriSep™ and SmartWater™ oil/water and solids/liquids separators, RainDrain™ perimeter trench sand filters for stormwater runoff, dissolved air flotation separators, air strippers, complete skid assembled aqueous waste treatment plants, FilterFresh™ skid mounted potable water production plants, skid mounted wastewater treatment systems for laundromats, commercial laundries, and car/truck wash facilities with water reclamation and reuse, softeners, demineralizers, activated carbon treatment equipment, and water purifiers for domestic and international markets.

Specialists in Water and Wastewater Treatment
Featuring Next Generation Waste-To-Energy Technology