



September 8, 2014

**Press Release: Membrane Replacement Contract for Criswell Water Treatment Plant, for the City of Pascagoula, MS**

Santa Fe Springs, California – Pacific Aqua Technologies, Inc. (PAT), a world leader and an international designer and builder of advanced water treatment systems was contracted to provide new Membrane Elements and Membrane Replacement Services for the Criswell Water Treatment Plant located in the City of Pascagoula, Mississippi.

Constructed in 2000, the 2 X 1.0 MGD Reverse Osmosis Water Treatment Plant was originally designed as a 2 stage system with a 20:10 Array but later converted to a 3 stage system with a 15:10:5 Array. In addition an inter-stage booster pump between the 2<sup>nd</sup> and the 3<sup>rd</sup> stages was added to increase overall recovery.



10035 Pioneer Blvd., Santa Fe Springs, CA 90670  
Tel: 562.942.1234 Fax: 562.942.0836  
[www.PacificAquaTechnologies.com](http://www.PacificAquaTechnologies.com)



PAT engineers analyzed various membrane elements to determine which best suited the city's needs. PAT replaced the existing membranes with the Hydranautics ESPA4-LD which offers a larger active membrane surface area and higher permeability than the previous membranes in the Criswell Plant. The new membrane's larger surface area and higher permeability result in a significant reduction in the operating pressure required by the Plant, thus a reduction in electricity consumption. In addition to the reduced energy consumption, the larger surface area of the new membranes results in a lower system flux and thus reduces "fouling" and other issues that affect membrane life and system efficiency.

According to Mr. Hany Said, PAT CEO, "It was time to take advantage of the improvements in technology, the new membrane allows us to increase permeate recovery, save the City at least \$7,000 per year on electrical expenses and obtain the permeate quality we were looking for."

### **About Pacific Aqua Technologies**

Based in Santa Fe Springs, California with offices in Florida and China, PAT derives its capabilities from over 100 years of combined experience in design, manufacturing and installation of large capacity desalination plants.

For additional news and more information on how PAT can solve your most demanding water problems, visit our web site at [www.PATH2o.com](http://www.PATH2o.com)

News Contact: Mr. Babak Mohammadi ([bam@PATH2o.com](mailto:bam@PATH2o.com))