

# VALAQUA

A division of Waveside (Proprietary) Limited  
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To whom it may concern,

## **RADICAL WATERS ECA IN VALPRE – WATER BOTTLING OPERATIONS SOUTH AFRICA**

An electrochemically activated (“ECA”) hygiene device was purchased from Radical Waters, and installed in our plant in 2010 to replace our traditional cleaning-in-place (CIP) processes on our three water bottling production lines.

Valaqua is a subsidiary of Coca-Cola, which bottles natural pure spring water supplying about 30% of the demand in South Africa. It is important that our CIP processes should not contaminate our product with any unnatural substances or chemicals under any circumstances. Previously we had used electrical boilers and various chemicals such as caustic soda and chlorine to clean and disinfect. We had heard of ECA technology before and knew that it had undergone intensive testing in our other carbonated softdrink bottling plants, and we decided to try it as an alternative to our normal chemical regime.

ECA met our criteria in this regard and furthermore we witnessed a positive trend in our microbiological results and to date we have not experienced any bacterial problems.

From a financial perspective we found ECA to be highly beneficial in that cleaning time was reduced from approximately 6 hours to around 45 minutes. We also noticed a reduction in the use of water of approximately 20%. Dispensing with the electrical boilers further reduced our overheads and our carbon footprint.

In short we estimate that the system will pay for itself within a year and a half.

The device is a stand-alone installation that is linked with your existing equipment and supplies automatically on demand with no modification of any other equipment necessary. It is important that, as with any other system, someone in the plant must take responsibility and look after the system. Plants that do have problems with their system neglect to take that ownership and also do not maintain their system properly. After a year we are still very happy with our ECA system.

In summary, an excellent system, environmentally friendly with lots of cost saving opportunities.

Yours sincerely



**Louis Lombard**  
**Plant Manager**

