CASE STUDY

Municipal Water Disinfection
Sartichala, Kvemo Kartli, Georgia

RADICAL WATERS
Natural Hygiene Solutions

Executive Summary

In 2012, the Municipal Development Fund of Georgia implemented rehabilitation works for **Sartichala City** Water Pipeline System, with the financing of the European Investment Bank (EIB).

Rehabilitation Works the for above project started in April 2012 and were completed in October 2015.

It was anticipated that after the project's completion, the population of the village of **Sartichala** would benefit from the improved water supply as well as improved water quality.

Rehabilitation work included the replacement of 33 km of pipeline and the upgrading of the disinfection facility. Also, 250m gabion and water intake reservoirs were constructed to ensure the availability of the necessary volume of drinking water. It is worth mentioning that after the project's completion, the water supply problem would be solved, which was a very important issue for the local community.

Population: 5000 people.
Drinking Water Consumption 1000 m3/day
Previously Used: Chlorination

Reported Benefits of Using ECA Technology

Safety

- No dangers & setbacks associated with Chlorination and/or hazards associated with transportation of the toxic substance.
- No Need to mix or dilute hazardous chemicals
- Environmentally Friendly Solution

Efficiency

- Elimination of Biofilms and inactivation of pathogenic microorganisms including Legionella species and nil bacteria counts.
- Creates longer lasting residual than traditional chlorination, often at a lower dosage.
- Signification reduction of Trihalomethane and other DBP.

Cost Reducing

- ECA Generator system is fully automatic and only requires minimal operator attention.
- No need for transport, handling or storage of chlorine gas or hypochlorite.
- On site installation in close proximity of urban population.

ECA STANDS FOR ELECTRO-CHEMICAL ACTIVATION. ECA IS A PATENTED TECHNOLOGY FIRST INVENTED IN RUSSIA AND BEEN UNDER DEVELOPMENT FOR OVER 40 YEARS. THE ACTIVATION PROCESS USES WATER, SALT AND ELECTRICITY & PRODUCES A POTENT SAFE DISINFECTANT AND DETERGENT.