



# IMPROVEMENT OF WATER AND WASTEWATER SYSTEMS OF CHARENTSAVAN, TSAGHKADZOR, GAVAR, ASHTARAK TOWNS AND APARAN TOWN AND SERVED RESIDENTIAL AREAS OF THE REGION

**Country** Republic of Armenia

**Client** World Bank

“Armenian Water and Sewerage” CJSC

**Duration** June 2006 – January 2007

***Brief description of project and services provided***

The following works have mainly been carried out for the mentioned five towns:

- field instrumental investigations
- identification of the existing pipelines (water mains and water network) and specification of water supply schemes of the towns, mapping
- water demand calculation
- hydraulic modeling
- justification of water supply network zoning
- classification and assessment of measures aimed at improvement, prioritization of measures
- development of detailed design packages, including working drawings, technical specifications, bill of quantities, procurement package, cost-estimations, etc.



Beside the activities mentioned above, also designs for Maqravan (Tsakhkadzor), Alapars and Town (Charentsavan), Yeznak (Aparan) and Hatsarat (Gavar) pumping stations reconstruction, as well as designs for chlorination stations in Tsakhkadzor, Ashtarak, Aparan and Gavar towns have been developed.



**Project objective:**

Improve water and wastewater systems of Charentsavan, Tsaghkadzor, Gavar, Ashtarak towns and Aparan Town and served residential areas of the region.