

LERNAJOUR-VANADZOR GRAVITY WATER SUPPLY SYSTEM



Country. Republic of Armenia

Marz, city. Lori marz, Vanadzor town

Client. RA Ministry of Urban Development

Duration. 2000 - 2001

Terms of Reference

1. Design investigations
2. Hydro-geological investigations
3. Development of working designs



Brief description of project and services provided

- ✓ Thorough investigation of underground catchment basin and particularly Maymekh and Lerna Jour small rivers joining area.
- ✓ Hydrogeological studies of underground water springs, based on which the type and place of water receiving structure was selected.
- ✓ In accordance with the selected water receiver, hydraulic calculation was carried out, the diameter and length of drainage pipeline was detected according to the collected discharge.
- ✓ Taking into account the inclination of the water receiver area, the project intended to implement an underground dam with 1m height and 25m length on Maymekh branch and one with 2.3m height and 30m length on Lerna Jour branch.
- ✓ A separating-regulating chamber was developed, where the waters of Maymekh, Lerna Jour and water collected from the dam drainages will be collected.
- ✓ For chlorination of the collected waters, a new chlorination station was designed with application of vacuum mode chlorinators.
- ✓ Technical specifications, work volumes, construction works organization design and cost estimates were developed.



Project objective:

To improve the gravity water supply system operation for Vanadzor town Taron and Tavros residential areas, increase drinking water quality and provide the population water demand.