

Jbeil Water and Wastewater Project

Country

Jbeil - Lebanon

Clients

Council for Development and Reconstruction
Italian Cooperation

Project Capital Cost

US\$100 Million

Services

Feasibility Study and Preliminary Design
Master Plan
Topographic and Population Surveying
Existing Facilities and Water Resources
Survey & Assessment
Final Study and Design
Expropriation Files
GIS Documentation

Main Trades

Civil, MEP, Electrical, Hydraulic and
Environmental Engineering

Project Time Frame

2008 - 2009

Narrative Description

The project aims to supply the Caza of Jbeil which is located to the north by potable water and to create wastewater collection systems for the most populated areas in the Caza. The project covers an almost an area of 420 km² and includes 150 villages with a projected design population of 150,000.

The water supply project's main components are:

- Intake structures on 4 springs
- 8 wells with pumping stations
- 9 surface pumping stations
- 50 water tanks having storage capacity up to 1,500m³
- 190km of DI gravity transmission line and pumping lines with diameters up to 450mm
- 140km of distribution networks

The wastewater project's main components are:

- 90 km of sewer collectors and branches for the coastal area and Qartaba village
- 11 wet well pumping stations with all necessary electrical, mechanical and hydraulics equipment
- Wastewater secondary Treatment plant for Qartaba village
- 50 Km of secondary and tertiary lines for Jbeil and Amchit villages
- 2300 House Connections

Dar Al Handasah Nazih Taleb & Partners in association with the Italian Cooperation were commissioned with providing comprehensive engineering services covering Feasibility Study, Preliminary Design, Master Plan, Topographic Survey, Population Survey, Existing Facilities and Water Resources Survey & Assessment, Final Study & Design, GIS Documentation and Expropriation Files.

