

Transfer of Water from the Nestos River to the Xanthi and Rodopi Plains in Thrace For Aquifer Rehabilitation

PROJECT TITLE

Transfer of Water from the Nestos River to the Xanthi and Rodopi plains in Thrace for Aquifer Rehabilitation in accordance to the Water Framework Directive

LOCATION

Xanthi & Rodopi Prefectures, Thrace, Greece

CLIENT

Ministry of Agriculture, Athens

DESCRIPTION

The Project concerns the **transfer** and **distribution** of water from the **Nestos** river to the **Xanthi** and **Rodopi** plains in Thrace, Northern Greece, where **low water table** and **saline water intrusion problems** have occurred due to **groundwater over-abstraction for irrigation purposes**. The rehabilitation of affected aquifers is a commitment of Greece in view of the requirements of the EU Water Framework Directive.

The project comprises of the studies for the **saving, transfer** and **distribution** of **water** for the **exploitation** of **305.000 acres** at **Xanthi** Prefecture and **538.000 acres** at **Rodopi** Prefecture. More specifically projects include:

- a) Xanthi Prefecture: **12,4 km** long **main transfer channel** and **187,4 km** long **pipelines**, **22 pumping stations**, **27 tanks** of a total volume of **186.000 m³**, and the **hard earthfill Xanthi dam** having a **height** of **54 m**, a **crest length** of **220 m** and a **capacity** of **6,8 millions m³**, and
- b) Rodopi Prefecture: **83,2 km** long **main transfer channels**, **223 km** long transfer **pipelines**, **50 pumping stations**, **50 tanks** of a total volume of **560.000 m³**, the **stonefill** and **concrete lasmos Dam** having a **height** of **91 m**, a **crest length** of **1.025 m** and a **capacity** of **141,5 millions m³** and the **earthfill Dilina dam** having a **height** of **84 m**, a **crest length** of **661 m** and a **capacity** of **88,2 millions m³**.

Services Provided:

- Preparation of an agricultural development plan,
- Hydrological and hydrogeological studies,
- Preliminary designs,
- Detailed design of the proposed works and
- Environmental Impact Assessment study.