

HIGHER TECHNICAL INSTITUTE

CIVIL ENGINEERING COURSE

DIPLOMA PROJECT

DESIGN OF A WATER TREATMENT PLANT

C/846

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INTRODUCTION

This project is a design of a water treatment plant. It has all the theory about designing a plant and about water characteristics, qualities and treatment.

The water treatment plant that is going to be designed is an updated version of the Hirokitia Water Treatment Plant. This plant is located 2Km outside the Hirokitia village near the Nicosia-Limassol highway.

The plant serves the territory of the town of Larnaca and the entire Famagusta province. These areas have a population of about 80000.

The distribution of the water is done by means of a main water conductor that passes through these territories.

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CHAPTER 1

- Classification of water
- Quantity of water
- Sources of water
- Precipitation
- Types of Dams
- Infiltration
- Water characteristics and Quality
- Impurities in water
- Physical characteristics of water
- Chemical characteristics of water
- Biological characteristics of water
- The requirements of Wholesome drinking water

CHAPTER 2

- Water treatment
- Water treatment Methods
- Physical Treatment Methods
- Chemical Treatment Methods
- Special Treatment Methods
- Desalting
- Disposal of treatment Plant Design

CHAPTER 3

- Actual Design