

# DESIGN A CENTRAL SEWERAGE SYSTEM FOR A NEW HOUSING ESTATE

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## ABSTRACT

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An understanding of the nature of wastewater is essential in the design and operation of collection, treatment and disposal facilities. Many of the important factors that need to be considered in developing the actual design of wastewater treatment plant.

The initial stages of a project, starting with the facilities plan and continuing through the conceptual and preliminary design phases are considered critical to the overall design process. It is during these initial stages that the design flow rates and mass loadings are developed, process selection is made, the design criteria are developed, refined and established then the facilities layouts are prepared. At the completion of preliminary design, the project is fully defined so that preparation of the detailed plans and specifications can proceed expeditiously.

Nowadays, modern sewage treatment plants producing high quality effluent, which can be safely discharged to the environment or reused. More recent developments in sewage treatment have been to improve the reliability and efficiency of treatment works through accelerating natural treatment rates under controlled conditions.