

Development of Al-Wakra and Al-Wukair STP

Client

JV of Calik Enerji, Metito Overseas Limited, and Elegancia Group

Scope of Work

Detailed Design

Location

Qatar

Types of Activities

Architectural
Civil
Communications and Security Systems
Electrical
HVAC
Instrumentation and Control
Interior Design
Landscaping
Mechanical
Process
Roads
Structural

ASHGHAL aims at developing Al-Wakra and Al-Wukair sewage treatment plant including the following components: Terminal Pump Station (TPS), screen shaft, pump shaft, odor control facilities, Treated Sewage Effluent Pump Station (TSE), Sewage Treatment Work facilities (STW), liquid treatment facilities, sludge treatment facilities, Treated Sewage Effluent facilities (TSE), TSE storage facilities, 6 deep injection wells, multi-purpose lagoons, ancillary buildings and facilities, and Kahramaa facilities.

The pump shaft and STW facilities are designed based on 2024 flow horizon with an average flow of 150,000 m³/

day, while the screen shaft is designed based on 2045 build-out flow of 600,000 m³/day.

The site proposed for the TPS, STW, and subsequent future expansions is located approximately 35 km south of Central Doha and covers approximately 1,500 hectares (ha), where foul-sewage is transferred to the TPS and STW via the network.