

Park Hyatt Hotel Wastewater Treatment Plant

Ho Chi Minh City, Vietnam

HydroScience was retained by the Park Hyatt Hotel in Ho Chi Minh City to Engineer, Procure, and Construct (EPC) a new wastewater treatment plant (WWTP) as part of the new expansion of the hotel. The Park Hyatt Hotel is a five star hotel located at Lam Son Square in District 1, Ho Chi Minh City. It is one of the most prestigious hotels in the City and is situated in close proximity to many key attractions including the Opera House, Notre Dame Cathedral, Ben Thanh Market, Reunification Palace, and others. The Park Hyatt rises nine stories in the heart of the City and has 244 rooms and suites. The hotel also has world-class restaurants and bars, including the Italian Restaurant Opera, the Square One Vietnamese Restaurant, the Park Lounge with a traditional Afternoon Tea, and the 2 Lam Son martini bar which is one of the city's top nightlife destinations. For sheer relaxation, Park Hyatt also features the Xuan Spa, a tranquil urban retreat offering private therapy rooms, and a fitness centre and outdoor pool.

The Park Hyatt Hotel in Ho Chi Minh City had an existing WWTP which was having difficulty complying with local wastewater discharge standards. The hotel was in the process of a major expansion and renovation and needed to expand the capacity of the existing WWTP to handle the anticipated increased wastewater flow from the hotel expansion. The existing WWTP was located in a small room in the below-ground parking facility and no additional space was available for the new WWTP. HydroScience expanded the existing WWTP capacity from 250 m³/day to 500 m³/day by converting the plant from a conventional activated sludge plant into an immersed membrane bioreactor (MBR). The new WWTP is fully automated.

HydroScience only had three months to design and construct the new plant. Construction began in July 2014 and was completed in October 2014. The new plant was started up and commissioned in November 2014. Throughout construction of the new plant HydroScience had to keep the existing WWTP in operation and in compliance with Vietnamese Column A discharge criteria. The existing WWTP was located in a small below ground vault with a head height of only approximately 1.5 meters. Special access hatches were required to install new equipment.

Subsequent to the handing over of the new WWTP the Park Hyatt Hotel contracted with HydroScience to provide on-going contract operations for the new plant. HydroScience operations staff are able to monitor the performance of the plant remotely and respond to operational alarms.

Client

Park Hyatt Hotel

Services Provided

- Planning
- Design
- Procurement
- Construction

Highlights

- Engineering, Procurement, Construct (EPC) contract
 - MBR Technology
 - Operation of the existing WWTP was sustained throughout construction of the new WWTP
 - Designed to meet strict regulatory, aesthetic, odor and sizing requirements
 - Short construction schedule of three months
 - Contract Operation
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