

ODELOUCA DAM

The reservoir of the Odelouca Dam aims to supply water for public supply to the Algarve Region, with high quality and guarantee standards. It is the main source of water in the Algarve, in conjunction with a set of other surface and groundwater sources, allowing Águas do Algarve to carry out an integrated management of water resources.

The Hydraulic Enterprise of Odelouca is composed of a set of infrastructures, organs and equipment that guarantee its purpose with maximum operational and structural safety. In addition to the dam body itself, the project also includes the Odelouca-Funcho tunnel and a flow adjustment structure, as well as a set of safety and exploration agencies, of which stand out the surface unloader, the ecological bottom and flow discharges and the two water outlet structures.

The water stored in the reservoir is routed by the 8 kilometers of the Odelouca-Funcho Tunnel, to the adductor Funcho - Alcantarilha, 200 meters downstream of the Funcho Dam, following in this pipeline for another 12 kilometers, to the Water Treatment Plant of Alcantarilha, where it is submitted to an appropriate treatment process, so that it can then be distributed, to the municipalities of the Algarve.

Águas do Algarve's investment in the Odelouca Hydraulic Development was around 80 million euros, of which 15% were dedicated to the environmental component and heritage appreciation

<https://www.aguasdoalgarve.pt/content/barragem-de-odelouca-0>



WASTEWATER TREATMENT PLANT OF COMPANHEIRA WTP – PORTIMÃO

The residual water to be treated in the Companion's TART comes from the Portimão interceptor system, consisting of a central axis, which integrates a gravitic collector in the tunnel, almost 10 km long and an outer diameter of 1500 mm, in the terminal zone connecting to the ETAR. In its entirety, the interceptor system, on the rise, has 79 km and integrates 30 lifting stations.

The influxes to this central collector (gravitic and elevatory) come from the urban agglomerates of the municipality of Portimão, Ferragudo and Parchal, in the municipality of Lagoa and Brejão, Caldas de Monchique and Monchique, from the municipality of Monchique.

The WTP of Companheira is located to the northeast of the city of Portimão, on the site of Bom Retiro – Companheira, on the right bank of the Boina river and south of EN125 route.

The treated effluent is unloaded on the Boina river, a tributary of the Arade River, in an area already integrated into the arade river estuary. In the area of influence of discharge of the final effluent of the ETAR, the bathing and conchicola activities are identified as the main uses of the recetor water environment. The normative established for the characteristics to which the treated effluent must comply, took into account the characteristics of the receiving medium and the activities mentioned above. Thus, a higher than secondary level of treatment was adopted, with the inclusion of the disinfection stage.

The facility is sized to treat a flow rate of 32,061 m³/day, corresponding to a total population equivalent to 140,092 inhabitants, estimated for the 2037 horizon year.

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