ABSTRACT

A fluid mixing channel structure which can decrease a mixing length L necessary for mixing two types of fluids and which can perform efficient mixing is provided. In a fluid mixing channel structure which merges effluent seawater flowing in a discharge channel 11 and diluting seawater flowing in a fluid conduit 12 to form mixed seawater to be returned to the sea, the fluid conduit 12, from a side surface, is merged with the effluent seawater, flowing in the discharge channel 11, below a water level, and a first weir 14 and a second weir 15 are provided below the water level at a confluent portion between the fluid conduit 12 and the discharge channel 11, so that the effluent seawater flowing in a bottom surface portion in the flow direction is regulated.