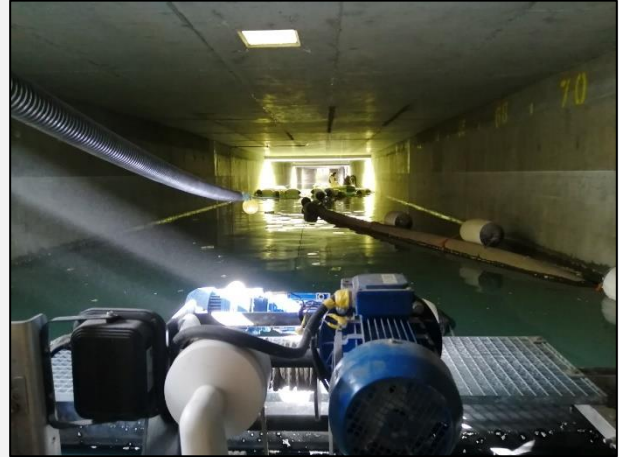


SediCon Desander Dredge for Alfalfal II, Chile

SediCon have supplied 3 SediCon Desander Dredges for Alfalfal II at Alto Maipo.



Installation of the Desander dredge in Alfalfal II desander



Desander dredge during testing

Project Description:

Alfalfal II is a 264 MW run-of-River power plant, It belongs to the Alto Maipo project, which is expected to have an annual production of 2300 GWh, the project has 67 km of tunnel between the high sector of the Volcan River and Las Lajas in the Maipo River. Alfalfal II net head is 1.160 m and discharge are 27 m³/s.

Location:

San Jose del Maipo district Región Metropolitana, Chile
Approximate location of Alfalfal II [33°33'50.9"S 70°12'42.1"W](#)

Client:

Strabag SpA

Sediment Challenge:

Alfalfal II basin is largely fed by snowmelt from glaciers and therefore has a high variability in monthly average flows. Sedimentation markedly increases during the summer months.

Solution:

SediCon supplied three SediCon Desander Dredges for the three sedimentation basins at El Volcan intake. The whole system will have a sediment removal capacity of 300 m³/hour and sediments can be removed during operation, without affecting the power production

Semi-automatic operation

The equipment has a semi-automatic operation system. The system is started by the operator once sediment levels reach a certain level and runs until sediments are removed and the operator stops it. The operator observes (remotely, on monitor) that the suction head movement are consistent with normal operating conditions and that sediments are discharged within expected concentration and velocity

Implementation:

The SediCon Desander dredges were installed in 2021 and will start operation during 2022.

SediCon is the leading supplier of sediment handling worldwide and provides reliable solutions with low water consumption and uninterrupted power production.

