

SediCon Sluicer for Miwa Dam, Japan

SediCon provided a full scale Sluicer for test and demonstration at Miwa Dam.



Outlet area



Water with sediments



Discharge of sediments

Project Description:

Miwa dam is the main test facility for sediment handling in Japan. The 4 km long reservoir has a debris collection dam, sediment check dam and a 4km sediment bypass tunnel. The past years' various sediment discharging methods have been tested, among them SediCon Sluicer (2008) and SediCon Dredge (2010).

Location:

Nagano District, Japan
[35°48'47.2"N 138°04'46.3"E](#)

Client:

Khowa Engineering Company Ltd / MLIT (final client)

Sediment Challenge:

Due to two major weakness zones, the sediment load into Miwa is one of the highest in Japan, causing rapid loss off storage volume. MLIT requested a demonstration of technology capable of removing reservoir sediments from the many reservoirs in Japan having sediment problems.

Solution:

SediCon supplied a full scale SediCon Sluicer system capable of discharging sediments using the available head difference. The SediCon Sluicer tested at Miwa was 30 m long 5 m thick sediments deposited above the SediCon Sluicer and were removed during the test.

Implementation:

December 2008

Results:

During the test 1.200 m³ sediments were discharged downstream of the dam by opening the outlet valve. The successful test verifies that the SediCon Sluicer is a suitable system for sediment removal.

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