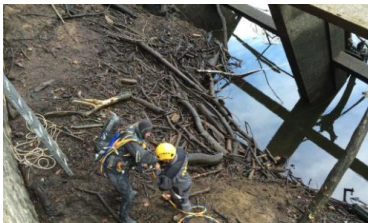




MAREGES DAM - FRANCE : UNDERWATER SURVEYS AND DREDGING OF BOTTOM OUTLET

Hydrokarst
GROUPE



" Hydrokarst is the only French Company able to work down to 200 m depth. Thanks to this know-how, our Client was able to carry out surveys, diagnosis and maintenance of dam equipment, without lowering reservoir level and thus, without losing electricity generation "

■■■ DESCRIPTIF DES TRAVAUX

End of 2014, Hydrokarst was awarded by SHEM to complete a survey of Mareges Dam bottom outlet. The purpose was to install a plug in front of bottom outlet, so then they could carry out maintenance on bottom outlet gates.

A first ROV survey highlighted that bottom outlet was unreachable because of a large accumulation of sediment and debris.

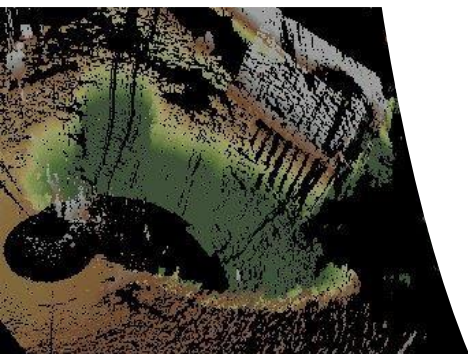
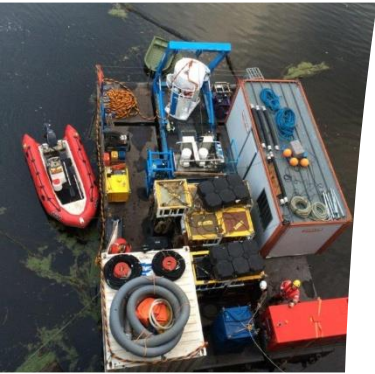
Hydrokarst was mandated to clean the bottom outlet, first by grabbing and then by pumping with divers.

■■■ DAM

Situation : Liginiac,
Corrèze
Commissioning : 1935
Height : 82m
Client : Société Hydro
Electrique du Midi

■■■ CONDITIONS

Working depth : - 64 m
Visibility : 0.50m
Water temperature : 7°C
Schedule : from October
27th, 2014 to February
12th, 2015



■■■ SCOPE OF WORK

- Trash rakes inspection (400m²)
- Thickness measurement
- Coating expertise
- Embedded parts metrology
- Estimation of total volume to extract
- Bathymetry survey
- 250 m³ wood grabbing
- Trash rakes removal
- Bottom outlet cleaning with divers
- Final ROV survey

■■■ PERSONNEL

- 1 diving chief operator
- 4 divers
- 1 crane operator
- 1 truck operator
- 1 ROV technician
- 1 grab operator

■■■ DIVING

- 13 air dives
- 68 dives with synthetic mix Helium 18/82
- 44 h of work
- 66 h of decompression

■■■ EQUIPMENT

- 100m² pontoon
- 1 boat
- 1 diving bell
- 1 diving control room
- 1 high pressure jetting
- 1 pump
- 7 decompression chambers
- 2 generators
- 1 ROV Seaeyes (MS1000, Didson, Sonar 3D)
- 1 hydraulic grab
- 1 dumper truck
- 1 130 tons mobile crane