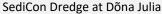


## SediCon Dredge for Dona Julia HPP, Costa Rica

The SediCon Dredge has removed more than 60.000m<sup>3</sup> coarse and fine sediments, including a large amount of organic debris.







Sediments discharged



Sediments at Dona Julia

**Project Description:** 18,5 MW, Run-of-River power plant

The power plant has a 220.000m<sup>3</sup> reservoir for daily storage, of which 40.000m<sup>3</sup> is dead

storage and 180.000m<sup>3</sup> is useful volume.

2x9,3MW Francis turbines

Location: Puerto Viejo River, Costa Rica

10°14'26.6"N 83°58'32.6"W

Client: O&M Eléctrica Matamoros SA

**Sediment Challenge:** Over the last 12 years 60.000m<sup>3</sup> sediments has accumulated in the reservoir. The

sediments consist of mainly sand and silt, but also a substantial amount of debris and

organic material like grass, twigs and branches.

Solution: SediCon supplied a 12" hydrosuction reservoir dredge with efficient water jetting

designed for the sediment properties. The outlet is over the spillway; hence no modifications was required to the existing structure. The rounded, soft edges of the suction head, together with the light raft, allows the dredge to operate without damaging

the thin PE membrane.

**Implementation:** The dredge was mobilized autumn 2012 and finalized its original scope one year later.

The dredge has continued to remove additional incoming sediments beyond what was

foreseen in the contract.

**Results:** More than 60.000m<sup>3</sup> sediments were removed to the client's satisfaction.

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