

PROJEKT Wadi Musa

Flood and sediment management project for Wadi Musa

Auftraggeber: Petra Regional Planning Council/Hashemite Kingdom of Jordan

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Wadi Musa is a town situated near Petra/Jordan with a population of about 10000 people. All the hotels for the tourists visiting Petra are located in Wadi Musa (13000 beds).

Within the last decades several floods, caused by thunderstorms during the winter months, destroyed parts of Wadi Musa and caused human lives. Therefore a watershed mangement plan for the catchment area of Wadi Musa will be created.

Some streets are crossed by culverts, which seem to be too small for the discharge. A lot of sediments are eroded from the riverside and deposited within the town.

The catchment area contains just locally forestal or agricultural areas. The greatest problem hereby is the small amount of available water during the summer.

The aim of this thesis is to design a general project for the whole watershed, including a flood and sediment management plan. This general project contains forestal, agricultural and technical measures.

Areas for water retention should be found. The retented water could be used for agricultural and forestal measures by local people.

Within the town technical measures will be propsed together with design parameters to replace culverts by bridges.