


		Project title		CONSTRUCTION AND OPERATION OF GADOURAS DAM IN RHODES ISLAND				
Name of legal entity	Country	Overall project value (EUR)	Proportion carried out by candidate (%)	No of staff provided	Name of client	Origin of funding	Dates (start/end)	Name of partner(s) [if any]
EPSILON	Greece	29.347,03	100%	3	Ministry of Environment, Planning and Public Works	Ministry of Environment, Planning and Public Works	1993-1995	-
Detailed description of project						Type of services provided		
 <p>Project description Construction and operation of Gadouras Dam and related irrigation works, aiming to supply with water the great Rhodes area (Rhodes, lalissos, Koskino) and the houses on the eastern side of the island, up to the town of Lindos and to irrigate farm land in Malona region. This study concerns the zone directly affected by the new development, as well as the broader area, either directly or indirectly. The scheme consists of the main dam, 55m high and related works.</p> <p>Environmental impacts</p> <ul style="list-style-type: none"> • Soil erosion due to vegetation removal and change of natural inclination and irrigation conditions. • Temporary increase of sediment supply and reduction of the river water clarity, downstream the dam. • Pollution of Gadouras river due to chemicals and waste from the construction site. • Vegetation removal and local adverse effects on fauna. • Noise pollution and dust emissions. • Change of land use. • Sedimentation in the reservoir. • Change of the fauna population diversity and decrease of fish species, especially Gizani. • Changes of Gadouras River flow regime. <p>Mitigation measures</p> <ul style="list-style-type: none"> • Recovery of construction sites. • Construction of storm drainage system, in order to avoid material erosion. • Rational management and disposal of extracted material. • Protection of riverbed against erosion. • Systematic monitoring of water quality. • Provision of a minimum discharge in the river downstream the dam, during all year, for the protection and conservation of fauna and water-loving vegetation and landscape aesthetics. 						<ul style="list-style-type: none"> • Engineering Design proofing • Environmental Impact Assessment • Analysis of the Physical Environment • Analysis of the Biological Environment • Analysis of the Social and Financial Environment • Demographics • Mathematical Modelling • Rehabilitation Measures design and development • Awareness Raising • Environmental Legislation 		

