

Technical Evaluation of the Tafitoala village Coastal Defense, Samoa								
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 partners if any
Sustainable Seas Ltd	Samoa	US\$12,000	100%	1	South Pacific Regional Environment Programme (SPREP)	AusAid	June 2013 to Aug 2013	N/A
Detailed description of project					Type of services provided			
<p>The PACC Project for Samoa selected Tafitoala village on the south western coast of Upolu island, as one of its main sites to demonstrate selected adaptation measures to address coastal erosion due to rising sea levels. Implementation of activities commenced in 2010 whereby a combination of hard and soft adaptation measures were identified, evaluated and implemented. The adaptation option that was implemented comprised of a hybrid of shoreline protection infrastructures and ancillary tree planting along the coastal areas. In December 2012, the Samoa islands were devastated by Cyclone Evan.</p> <p>Tafitoala village was one of the communities seriously affected by river flooding and storm surges as a result of very strong winds. Part of the village coastal area is largely a flood plain, and the current shoreline infrastructure runs through this section thus was badly affected by the flooding. Such damage prompted the need for a technical and</p>					<p>The following services were provided by Sustainable Seas Ltd</p> <ol style="list-style-type: none"> 1. Assessment of the shoreline protection structure and design modifications; 2. Development of a PACC Samoa Integrated Coastal Management guideline; 3. Finalizing the draft V&A report; and <p>Develop a concept paper to design a monitoring system to be implemented.</p> <p>The work involved the following detailed activities:</p> <ul style="list-style-type: none"> • Survey the current situation of the hybrid seawall and its ability to withstand tidal surges, overtopping and surface flooding for the next 10-15 year period; • Assess the immediate surrounding environment aspects (floodplains close to the river) against the future impacts on the seawall • Provide technical advice and recommendations for improvement to the hybrid seawall which would include detail modifications and specifications • Assess the process that led to the selection of the hybrid sea wall (including policies and measures) to promote/facilitate climate change risk management; • Discuss the efficacy and quality of the methodologies applied/used to determine the optimal mix of policies and measures (for example, assessment of vulnerability, socio economic impact analysis, cost benefit analysis etc.). <p>Determine the impact of the introduced measures including documentation of the perceived benefits (or absence of) to the Tafitoala community;</p>			