

| Samoa Shoreline and River Defence Guidance Manual   |         |                             |   |                      |  |                   |                        |                         |
|---|---------|-----------------------------|---|----------------------|--|-------------------|------------------------|-------------------------|
| 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\$16,000                  | 100%                                    | 1                    | South Pacific Regional Environment Programme (SPREP)   | AusAid            | Nov 2014 to March 2015 | N/A                     |
| Detailed description of project   |         |                             |   |                      | Type of services provided  |                   |                        |                         |
| <p>Samoa and its coastal communities are facing increasing challenges related to vulnerability to climate change and variability, notably the damaging effects of flash floods, strong winds and high seas, coral bleaching, and droughts. Loss of life relating to flash flood events manifested itself in a terrible way in 2013 when a school bus was swept away in strong flood water in Savaii killing two school girls and injuring many others.</p> <p>The impacts of severe coastal erosion over the years exacerbated with the 2009 tsunami and Tropical Cyclone Evan in 2012 on the south coast of main island Upolu, had the government call for the need to cautiously but urgently implement integrated coastal zone management (ICZM) that incorporates sustainable sea and river defence management. Several ad hoc response measures have been implemented in the form of shoreline defences in order to hold the line, and provide protection for the people and properties along these exposed coastal communities.</p> <p>The most common form of shoreline defence is that of rock revetments that were put in place to arrest coastal erosion. Inland fluvial flash flood events during the Tropical Cyclone (TC) Evan event in 2012 provided valuable lessons learned with regards to flood risk management and clearly illustrated the nexus between development happening at the inland ridges and those located down along the coastal shores (ridge to reef engineering approaches). This understanding will allow future projects and programs to be designed with an integrated understanding of catchment (river basin) processes and the implications this may have on creeks and channel system plus coastal protection measures built on the shoreline.</p> |         |                             |   |                      | <p>The objective of this consultancy is to develop a practical manual for Samoa's shoreline and river defences (the 'manual') with the goal of reducing climate risks and promote climate resilient river and sea defence management in coastal communities of Samoa. The purpose of the assignment is to produce a manual that shall help Samoa and other Pacific Island Countries (PICs) to make appropriate planning and engineering decisions on the future design and construction of climate resilient flood defence measures within a "ridge to reef" concept. <b>It will be designed to help planners, coastal engineers, and other stakeholders in Samoa to plan and develop effective management of the coastal zone, in a "ridge-to-reef" approach.</b> SPREP also look to sharing it beyond Samoa, as an example of an approach to integrated coastal planning and management</p> <p>The following services were provided by Sustainable Seas Ltd:</p> <ul style="list-style-type: none"> <li>• A draft outline of the manual contents;</li> <li>• A draft manual 'Climate Resilient Shoreline and River Defence Manual' for Samoa;</li> <li>• A workshop with stakeholder groups in Samoa, to refine the content, ensure that it is appropriate and relevant for the user groups, and is user-friendly .</li> <li>• A final draft of the manual, ready for publication .</li> </ul> |                   |                        |                         |